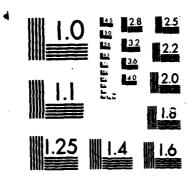
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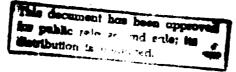
#### **NATIONAL COMMUNICATIONS SYSTEM**

**VOLUME III TEST DATA ELECTROMAGNETIC PULSE TESTING** OF PROTECTION DEVICES

> SECTION 1 HIGH ENERGY PULSE-**DEVICE FAILURE TEST**

**50 OHMS IMPEDANCE** 25,000 VOLTS - 4000 AMPS 100 JOULES

OCTOBER 1985





# ADA164432



	REPORT DOCUM	MENTATION I	PAGE			
'a REPORT SECURITY CLASS FICATION		16 RESTRICTIVE MARKINGS				
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Electrospace Systems, Inc.	(ii application)	National Communications System				
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	Transient Elec	trical /Magnet	tic <u>Pulses</u> .	1030, 21	m, cryching, a	
19 pastract (Continue on reverse if necessary	and identify by block i	number)		7		
This technical report discusses	s the vulnerabil	ity of equipr	ment used by	amateur/	MARS radio	
operators in the United States	to disruption o	r damage by t	ransient el	ectromagn	etic effects	
such as lightning, voltage surgethe results of two test program	ges, and electro	magnetic pul: ate existing	se (EMI') wav	es. It a	lso reports	
the results of two test programs; one to evaluate existing transient suppression devices and components, and one to evaluate the response of amateur radio equipment to an EMP transient						
environment.						
Based on the test results, the report recommends procedures and a low-cost installation						
Scheme which will significantly increase the operational survivability of amatour type						
communications equipment in a lightning or EMP environment.						
This report consists of three volumes. Volume I (200 pages) contains the test results and recommendations for transient protection of amateur radio equipment. Volume II						
25 STEBUTION/AVAILABILITY OF ABSTRACT 21. ABSTRACT SECURITY CLASSIFICATION						
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22a NAME OF RESPONSIBLE INDIVIDUAL  Dennis Bodson	-	226. TELEPHONE ( 202) 692-21				
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83 APR edition may be used until exhausted All other editions are obsolete

UNCLASSIFICATION OF THIS PAGE

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### UNCLASS IF 1ED

Block 19 Continued - ABSTRACT

(136 pages) contains supporting documentation including: the test plans for the two EMF tests, descriptions/specifications of the tested transient suppression devices and the amateur radio equipment, and photographs of the test facilities and test set-ups. Volume III (1290 pages) contains the raw test data in the form of oscilloscope photographs attached to the test data sheets for both test programs, as well as, written test descriptions and bench check measurements from the equipment test program. For most purposes Volume I should provide sufficient information. Volume II would be required to obtain more detailed descriptions of the test programs and tested devices and equipment. Volume III would only be required if a separate analysis of the test data is being made.

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#### NCS TECHNICAL INFORMATION BULLETIN 85-10

ELECTROMAGNETIC FULSE/TRANSIENT THREAT TESTING OF PROTECTION DEVICES FOR AMATEUR/MILITARY AFFILIATE RADIO SYSTEM EQUIPMENT

ULTUBER 1935

TRUJECT OFFICER

DENNIS BODSON
Senfor Electronics Engineer
Office of Technology
and Standards

- AFFROVED FOR PUBLICATION:

MARSHALL L. CAIN
Assistant Manager
Office of Technology
and Standards

FOREHORD

The National Communications System (NCS) is an organization of the Federal Severnment whose membership is comprised of 22 Government entities. Its mission is to assist the Fresident, National Security Council, Office of Science and Technology Folicy, and Office of Management and Budget in:

- o The exercise of their wartime and non-wartime emergency functions, and their planning and oversight responsibilities.
- The coordination of the planning for and provision of National Security/Emergency Preparedness communications for the Federal government under all circumstances including crisis or emergency.

in support of this mission the NCS has executed a Memorandum of Understanding with the American Radio Relay League. Its purpose is to establish a broad framework for a cooperative and close working relationship with volunteer radio amateurs for support of national emergency communications functions. It is intended through joint coordination and exercise of the resources of both organizations, to enhance the nation-wide posture of telecommunications readiness for any conceivable national emergency. This particular Technical Information Bulletin is one of a series aimed at developing an awareness in the radio amateur community of practical, low cost EMP protective procedures, devices, and equipment which may if utilized significantly enhance the probability of amateur radio resources escaping serious damage during emergency situations involving EMP events.

Comments, on this TIB are welcome, and should be addressed to:

Office of the Manager National Communications System ATTN: NCS-TS Washington, DC 20305-2010 (202) 692-2124

#### VOLUME III

#### CONTENTS

Section	1	HIGH ENERGY PULSE - DEVICE FAILURE TEST 50 OHMS IMPEDANCE,
		25,000 VOLTS, 4,000 AMPS, 100 JOULES
Section	2	HIGH IMPEDANCE/HIGH VOLTAGE TEST 50 OHMS, 4500 VOLTS
Section	3	LOW IMPEDANCE/HIGH VOLTAGE TEST 5 OHMS, 4500 VOLTS, 1000 AMPS
Section	ц	LOW IMPEDANCE/LOW VOLTAGE TEST 5 OHMS, 600 VOLTS, 120 AMPS
Section	5	EQUIPMENT AND DEVICES OSCILLOSCOPE PHOTOGRAPHS
Section	6	EQUIPMENT AND DEVICES BENCH CHECK MEASUREMENTS
Section	7	EQUIPMENT AND DEVICES TEST DESCRIPTIONS

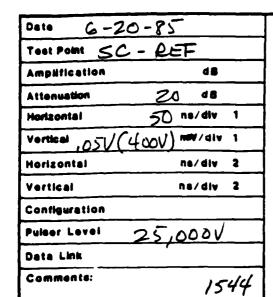
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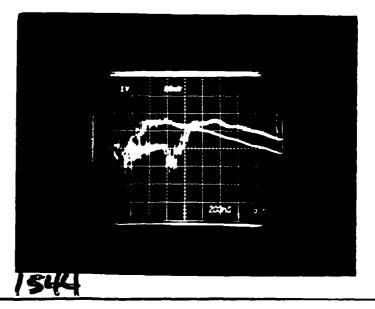
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Test Point REF T + V	
Ampulication O dB	
Attenuation 40 dB	
Horizontal (60 ns/div 1	11 1000
Vertical JV (2000 AV) av/div 1	
Horizontal /05 ns/div 2	
Vertical . / ( 800V) am/div 2	
Configuration - 20 dR	
Pulser Level 25000V	
Data Link	
Comments: 1558	
7730	1538

IGNORE ALL HASH BEFORE START OF CUPRENT PULSE (I) OR 150 NANO SEC'S.

ON ALL HV TEST'S (725-TESTS)

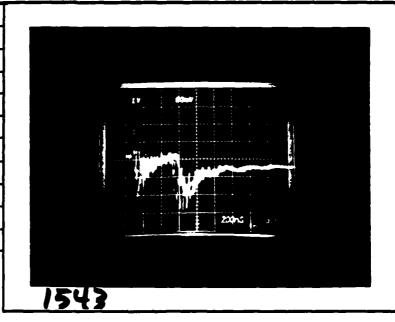
Date		
Test Point		
Amplification	dB	
Attenuetion	46	
Horizontal	na/div	1
Vertical	mV/dlv	1
Horizontal	ne/div	2
Vertical	ne/div	2
Configuration		
Pulsor Level		
Date Link		
Comments:		



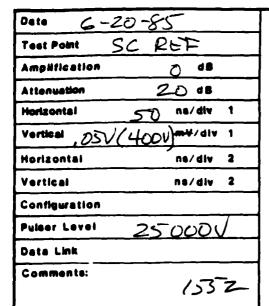


GRND CLIP OPEN -PROBE ON GRND STRAP

6-20-85 Date SC - REF Test Point Amplification 48 Attenuetion 48 Horizon ne/div 1 (400V = /4IV Vertical . 051 Horizontal ns/div 2 Vertical ne/dly Configuration Pulser Level Data Link Comments: 1543



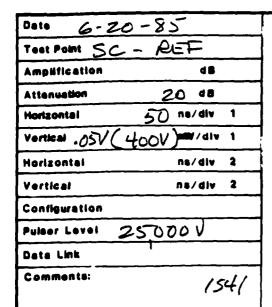
SAME AS 1542 WITH V PROBE LEAD VERTICAL -

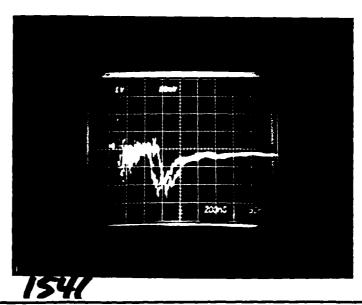


1552\_

GND REF

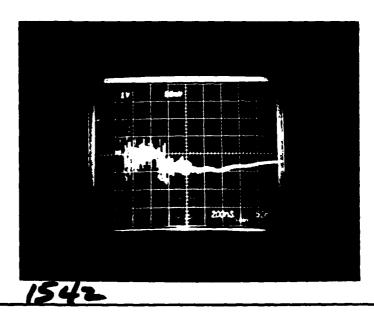
6-2085 Dete Test Point PLT SC Amplification 48 Attenuation dB 20 50 ne/dly 1 Horizontal Vertical OSV (400V) -- 1 Horizontal ns/div 2 Vertical ne/dly 2 Configuration 25000v Pulser Level zoint | Date Link Comments: GND REF





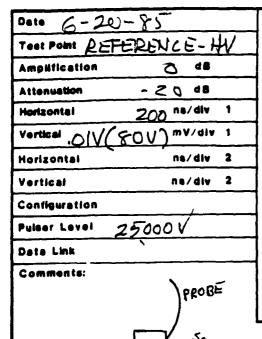
PULSE CLIP TO BRAID GROUND CLIP ON STRAP

6-20-85 Dete Tool Point SC - REF Amplification dB dB Attenuation SD ne/dly 1 Horizontai Vertical 050 ( 400V) my/div 1 Horizontal ne/dly 2 Vertical ne/dly 2 Configuration Pulser Level Date Link Comments: 1542



PROBE TO BRAND GND CLIP NOT CONNECTED

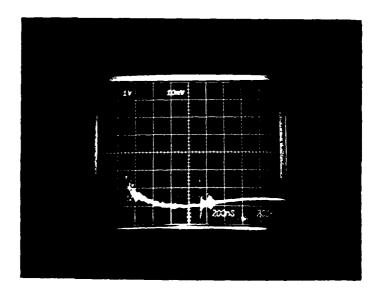
## HU BROWND REFERENCE



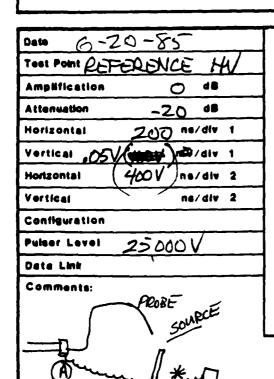
1.5// STRAP

FRAME GROUND

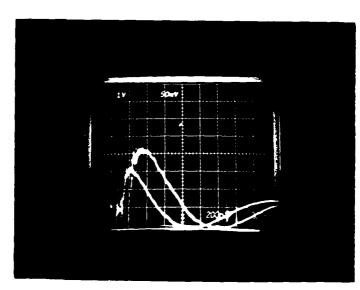
FRAME



LOW IMPEDANCE GROUND REFEREE



HIGH POLSE SETUP



\* THIS SECTION ~3" BRAID HAS BEEN REPLACED WITH RO 213 BRAID & 1/2 D ORIG WAS RG 58 BRAID & /4" D /1600 V FOR LOW PULSE, GROUNDED (1200V POINT A TO FRAME

## HV- REFERENCE

Test Point PEFENENCE

Amplification ods

Attenuation 40 ds

Horizontal 200 na/div 1

Vertical /V(2000 A/V) AM/div 1

Horizontal 200 na/div 2

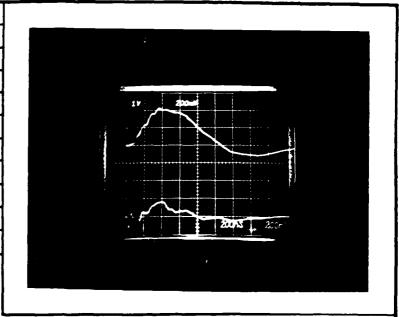
Vertical 2V(1600V) AM/div 2

Configuration -20 dB

Pulser Level 25,000 V

Data Link

Comments:



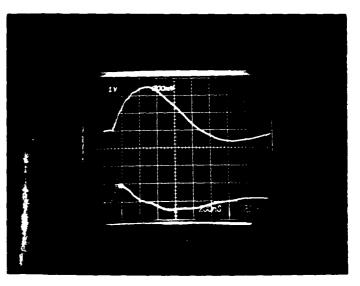
SHORT CIRCUIT REF GND TO STRAP

TME: 0803 6/20

Date		
Teet Point		
Amplification	d8	
Attenuation	48	
Horizontal	ns/dlv	1
Vertical	mV/div	1
Horizontal	ns/div	2
Vertical	ne/div	2
Configuration		
Pulser Level		
Date Link		
Comments:		

# HV SEFERENCE

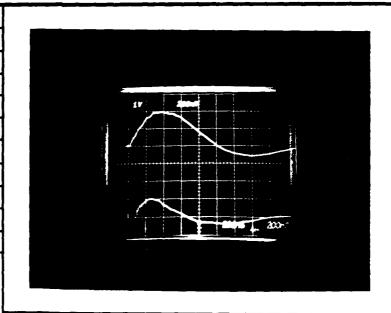
Date 6-20	7-85
Test Point RE	FERENCE
AmpHication	O d8
Attenuation	40 08
Horizontal	200 no/div 1
Vertical IV(2	000 /W M/div 1
Horizontal	200 ne/div 2
Vertical 2V	1600V =1414 2
Configuration	-20dB
Pulser Level	25,000V
Deta Link	
Comments:	



SHORT-CIRCUIT L (SC) REF - INTO GRND PLATE THRU 1.5" STRIP - MINIMUM VOLTAGE -

TIME: 0840- 6/20

Date 6-2	20-85
Test Point REF	ERENCE
Amplification	S 48
Attenuation	40 48
Horizontal	200 ne/div 1
Vertical /V (20	DOANNE 1
	200 ne/div 2
Vertical ,2V(1	
Configuration	-20dB
Pulser Level 2	5,000 V
Deta Link	
Comments:	

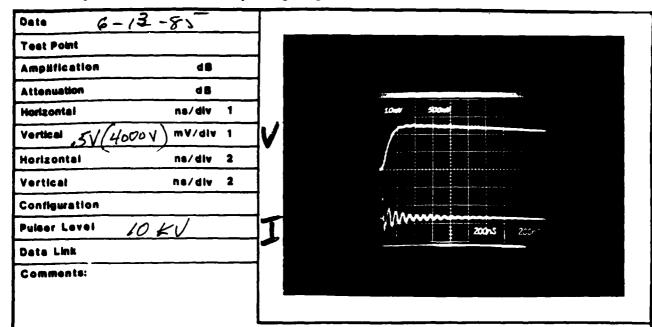


SHORT CIRCUIT (SC) REF - TO GNO THRU CLIP.

TIME: 0757 6/20

+11

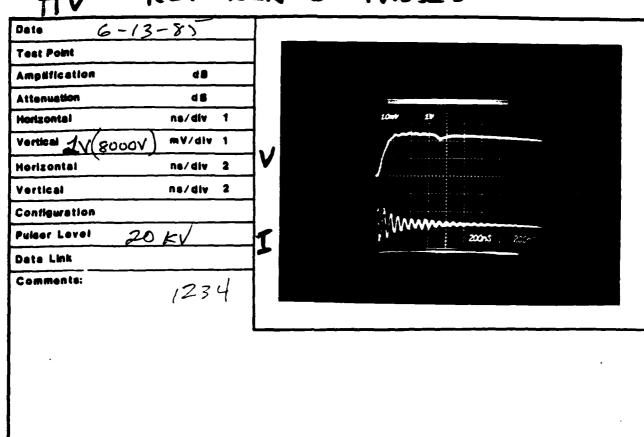
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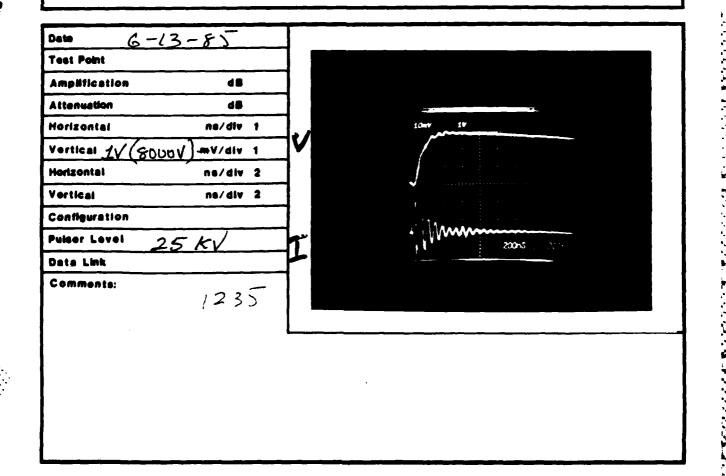


VOLTAGE ON TOP SCALE

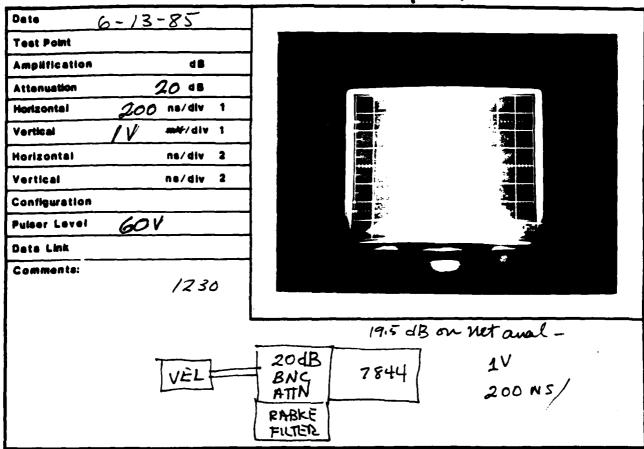
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Test Point				
Amplification	48			
Attenuetion	dS			
Horizontai	ne/dlv	1		10
Vertical 3V 40	DUV mV/dlv	1		
Horizontal	ns/div	2		
Vertical	ne/div	2		
Configuration				1
Pulser Level	15KV			200nS 250
Data Link				
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VOLTAGE	ON TO	۔ ج		
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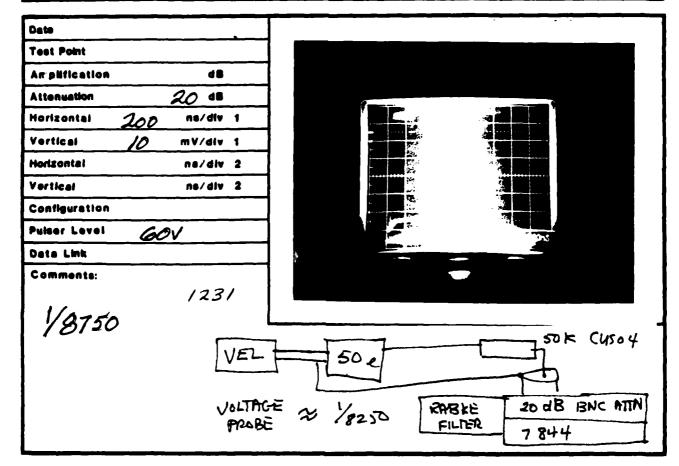
HV REFERENCE PULSES -





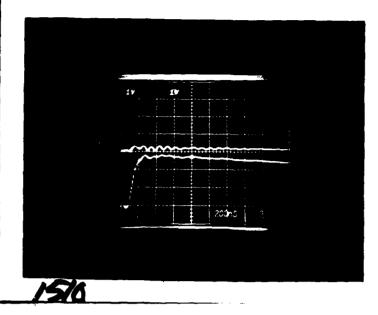
PROBE- CAUBRATION - +1





# HV - REFERENCE

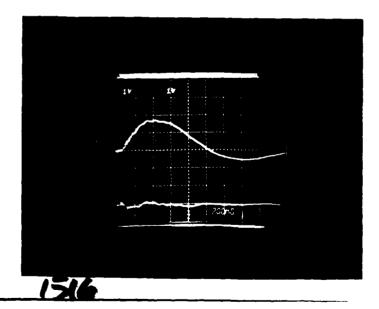
Date 6-19	
Tool Point RE	PERENCE
AmpHileation	0 40
Attenuation	40 08
Hortzontal	200 ns/dlv 1
Vertical IV (20	DOON WIND 1
Horizontal	200 ne/div 2
Vertical IV/8	000 V) -/div 2
Configuration	-20dB
Pulser Level	25,000 V
Date Link	
Comments:	1510



ORER TO SOIL 2 LOAD

WITH DIRTY AIR GAP

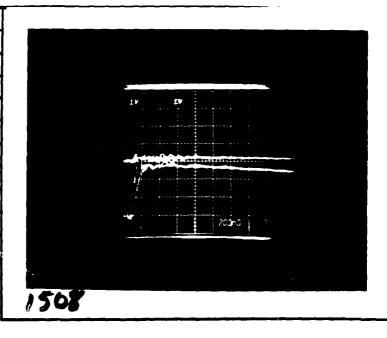
Date 6-14-	85
Teet Point P.	PERENCE
AmpHilcation	0 46
Attenuation	40 de
Horizontal	200 ne/dlv 1
Vertical (VC2	000AN ) = 47 div 1
Horizontal	2000 ne/div 2
Vertical IV(80	500 <b>V</b> ) -/div 2
Configuration	-20dB
Pulser Level	25000 V
Date Link	
Comments:	
	1516



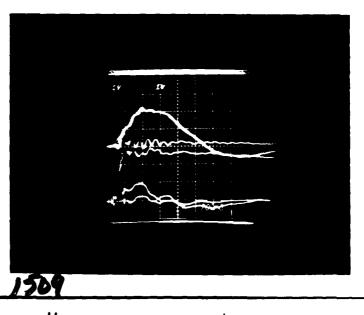
REFE TO GND

WITH A CLEAN AIR GAP

6-19-85 Date Tool POINTR- 725 - 15 -Amplification Attenuation 48 Horizontal Vertical IV 200 Horizontai Vertical IV (8000V) m/dly - 20 dB Configuration 25,000 V Pulser Level Data Link Comments: 1508



6-19-85 Test Point 78- 725 - 6/10-2 Amplification 48 40 Attenuetion dB ns/dlv 1 200 Horizontal Vertical LV B/dly 1 Horizontal ns/dlv 2 Vertical - 1664 m/div 2 -20dB Configuration Pulser Level 25,000 V Date Link Comments: 1509 / RUSE@ IV/ (SUDOV) / PULSE @ . 21/(1600V)



"PULSER RINGING"

Test Point TR-T25-2-3

Amplification Ods

Attenuation 40 ds

Herizontal 200 ns/div 1

Vertical /V(2000 A/middle 1

Herizontal ns/div 2

Vertical ns/div 2

Configuration

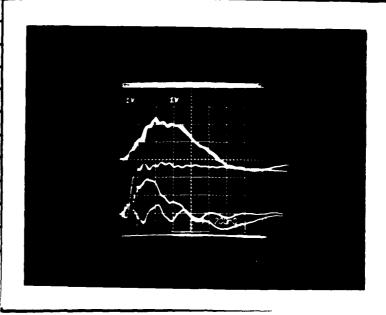
Pulser Level

Data Link

Comments:

REF V@ 1V/(8000)

DATA @ 1V/(8000)



"pulser ringing"

Date		
Test Point		
Amplification	48	
Attenuetion	dB	
Horizontal	ne/div	1
Vertical	mV/dlv	1
Horizontal	ns/div	2
Vertical	ne/dlv	2
Configuration		
Pulser Level		
Dete Link		
Comments:		

Test Point 7R - 725 - -4

Amplification 0 d8

Attenuation 40 d8

Horizontal 200 na/div 1

Vertical /V(2000 V) W/div 1

Horizontal 200 na/div 2

Vertical /V(8000V) = div 2

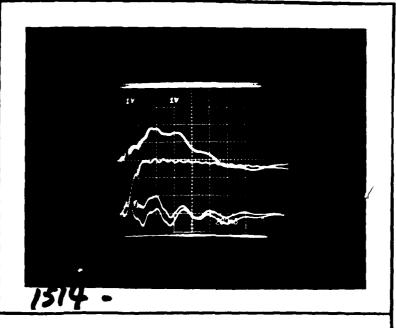
Configuration - 20 dB

Pulser Level 25000V

Data Link

Comments: /5/4

REF @ IV (8000V) DATA @ IU (8000V) DATA @ .2V (1600V)

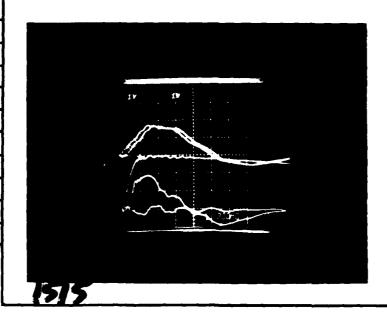


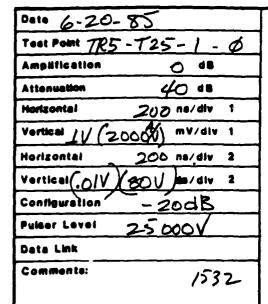
" PULSER RINGING"

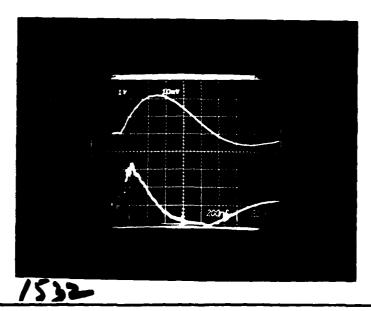
Date 6-19-85	
Test Point TR-725	-2-5
Amplification	0 48
Attenuation	40 de
Horizontal 200	ne/dlv 1
Vertical IV (2000 4/	w/div 1
Horizontal Andrews	24/82 2
Vertical IV (8000V)	■/div 2
Configuration -2	odB
Pulser Level 25.0	00 <b>4</b> V
Data Link	
Comments:	1515

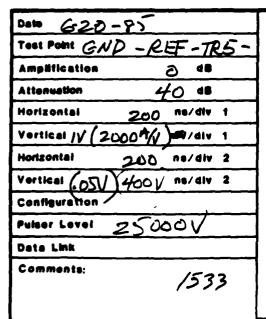
207

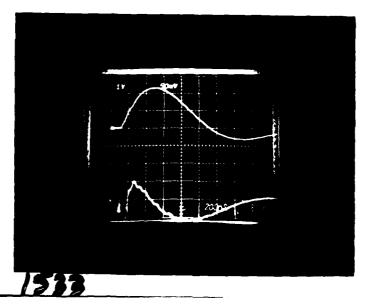
DATA - LV (800V)
DATA - . LV (800V)



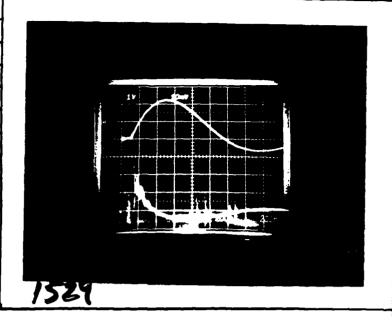




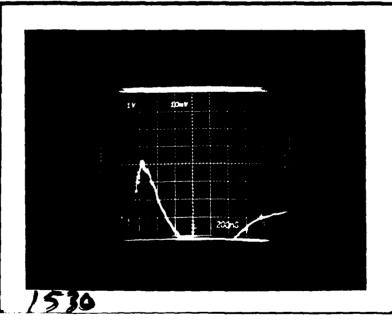


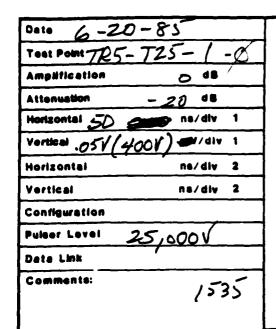


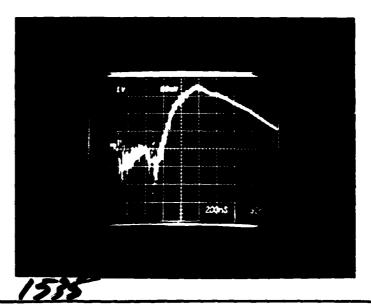
6-20-85 Date Toot Point TR 5 - 725 - 2 - 0 Amplification dS Attenuation d B ns/dlv Horizontal Vertical // me/div Horizontal 200 ns/dly **₼**/div Vertical .OLV -zociB Configuration 25,000 V Pulser Level Data Link Comments: 1529



6-20-85 Dete Teel Point 726 - 725 -Amplification dB Attenuation dB Horizontal ne/dlv 1 Vertical . 0/V W/div 1 Horizontal ne/div 2 Vertical ns/dlv 2 Configuration Pulser Level 25,0001 Date Link Comments: 1530

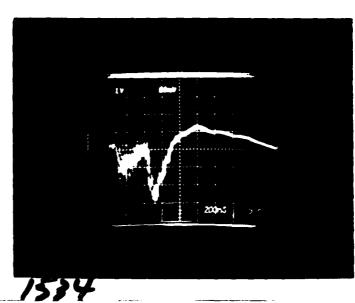






TIME

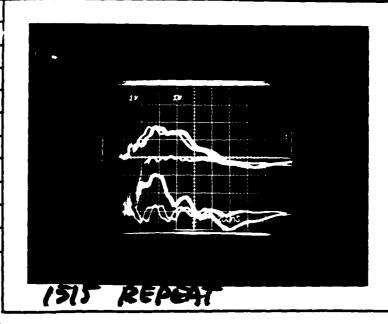
6-20-85 Date Test Point TR5-REF - SC Amplification 48 Attenuation dB Horizontal ne/dlv 1 Vertical 400V +4/div 1 Horizontal ne/div 2 ne/dly 2 Vertical Configuration 25000 V Pulser Level Date Link Comments: 1534



SHORT CIRCUIT REF

TME: 1315 6/20

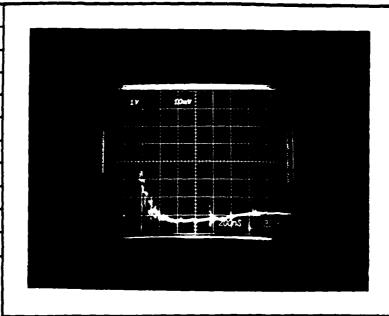
Test Point TR-725-2-5
Amplification Ods
Attenuation HO ds
Horizontal 200 na/div 1
Vertical N(2000 W) A/div 1
Horizontal 200 na/div 2
Vertical N(8000V) A/div 2
Configuration -20 dB
Pulser Level 25,000V
Data Link
Comments: 1515
REPENT



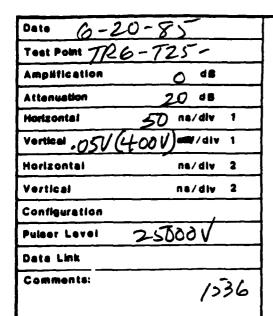
" (a)	.11(8001)
Date	
Test Point	<b>.</b>

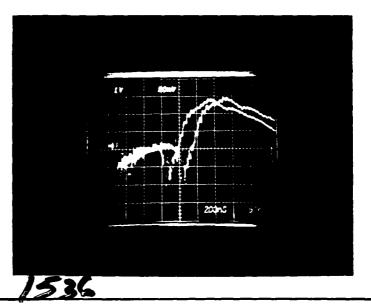
Date	
Test Point	
Amplification	48
Attenuetion	dS
Horizontal	ne/dlv 1
Vertical	mV/div 1
Horizontal	ne/div 2
Vertical	ns/dlv 2
Configuration	
Pulser Level	
Data Link	
Comments:	

Date 6-20-85 Test Point TR6-725-Date Amplification dB Attenuation 48 Horizontai ne/div mV/div Vertical Horizontal ns/dlv Vertical ns/div Configuration 25,000V Pulser Level Data Link Comments:

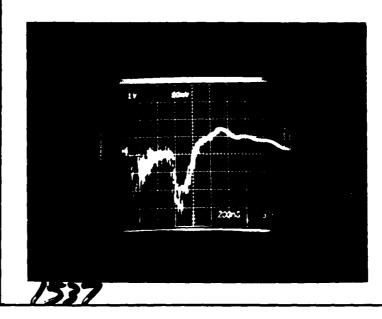


Date		
Test Point		
Amplification	48	_
Attenuation	48	
Horizontal	ns/dlv	1
Vertical	mV/dlv	1
Horizontal	ns/div	2
Vertical	ns/dlv	2
Configuration		
Pulser Level		
Data Link		
Comments:		





6-20-85 Test Point REF Amplification 46 Attenuation dS 50 ne/dlv 1 Horizontal .05V (400/41/div 1 Vertical Horizontal no/div 2 Vertical ne/dly 2 Configuration 25,000 V Pulser Level Data Link Comments: 1537



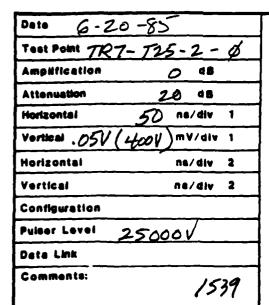
SHORT CIRCUIT REF

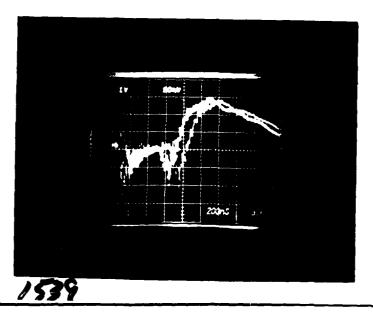
Date 6-20-85 Toot Point TR7- REF -SC O 48 Amplification 20 dB Attenuation ns/dlv 50 Horizontal Vertical .05V (400V mV/div Horizontal ne/dly 2 Vertical ns/div Configuration 25000 Pulser Level Data Link Comments: 1540

1540

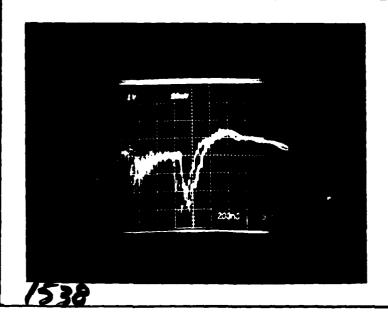
SC-REF

Date		
Test Point		
Amplification	d₽	
Attenuation	48	
Horizontal	ne/div	1
Vertical	mV/dlv	1
Horizontal	ns/div	2
Vertical	ne/div	2
Configuration		
Pulser Level		
Data Link		
Comments:		

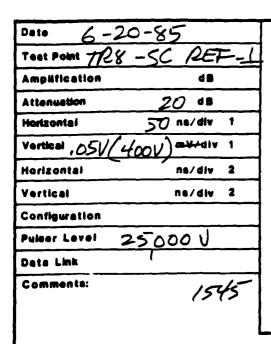


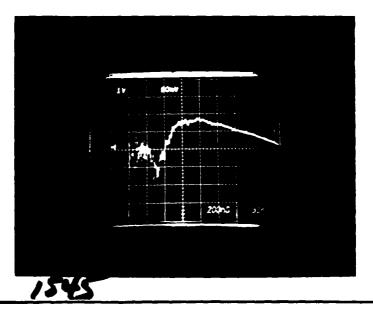


Date 6-2	20-85
Test Point TRY	
AmpHilication	0 48
Attenuation	20 40
Horizontal	50 ne/dlv 1
VerticalOSV (4	00V) mW/div 1
Horizontal	ne/div 2
Vertical	ns/div 2
Configuration	
Pulser Level 2	5000 V
Data Link	
Comments:	1538



SC-REF -

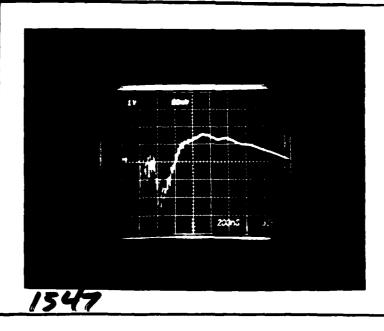




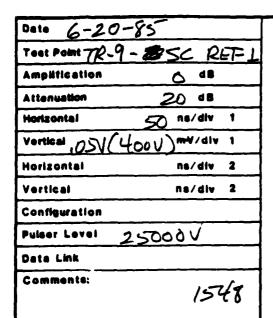
SC REF

Antenuation D dB  Attenuation D dB  Horizontal SD ne/div 1  Vertical NoSV (400V N/div 1  Horizontal ne/div 2  Vertical ne/div 2  Configuration  Pulser Level  Data Link  Comments: 1546	Test Point TRR - 725 - Amplification 8 dB  Attenuation 20 dB  Horizontal 50 na/div 1  Vertical 05V (400V PV/div 1  Horizontal na/div 2  Vertical na/div 2  Configuration  Pulser Level  Data Link	Date 6-2	20-85	
Attenuation 20 dB  Horizontal 50 ne/div 1  Vertical 05V (400V) W/div 1  Horizontal ne/div 2  Vertical ne/div 2  Configuration  Pulser Level  Data Link  Comments: 1546	Attenuation 20 d8  Horizontal 50 na/div 1  Vertical 05V (400V) W/div 1  Horizontal na/div 2  Vertical na/div 2  Configuration  Pulser Level  Data Link  Comments: 1546	Teel Point TRR	-725-	
Horizontal 50 ne/div 1  Vertical 05V (400V) N/div 1  Horizontal ne/div 2  Vertical ne/div 2  Configuration  Pulser Level 2  Comments: 1546	Horizontai 50 ne/div 1  Vertical 05V (400V) N/div 1  Horizontai ne/div 2  Vertical ne/div 2  Configuration  Pulser Level  Data Link  Comments: 1546			
Vertical OSV (400V) W/div 1 Horizontal ne/div 2 Vertical ne/div 2 Configuration Pulser Level Data Link Comments: 1546	Vertical OSV (400V) = W/div 1  Horizontal ne/div 2  Vertical ne/div 2  Configuration  Pulser Level  Data Link  Comments: 1546	Attenuation	20 40	
Horizontal ne/div 2  Vertical ne/div 2  Configuration  Pulser Level  Data Link  Comments: 1546	Horizontal ne/div 2  Vertical ne/div 2  Configuration  Pulser Level  Data Link  Comments: 1546	Horizontai	50 ne/div 1	17 200
Horizontal ne/div 2  Vertical ne/div 2  Configuration  Pulser Level  Data Link  Comments: 1546	Horizontal ne/div 2  Vertical ne/div 2  Configuration  Pulser Level  Data Link  Comments: 1546	Vertical ,05V(	400V = 1/div 1	
Configuration  Pulser Level  Data Link  Comments: 1546	Configuration  Pulser Level  Data Link  Comments: 1546		7 -	
Pulser Level  Data Link  Comments: 1546	Pulser Level  Data Link  Comments: 1546	Vertical	ne/div 2	
Data Link  Comments: 1546	Comments: 1546	Configuration		
Comments: 1546	Comments: 1546	Pulser Level		2000
15 46	15 46	Data Link		
/3 76		Comments:	1546	
			l	_/>76

6-20-85 Date Test Point TR8-SC REF-2 Amplification d8 20 Attenuation dB Horizontei ns/div Vertical Horizontal 2 ns/dlv 2 Vertical ns/dlv Configuration 25000 Pulser Level Data Link Comments: 1547



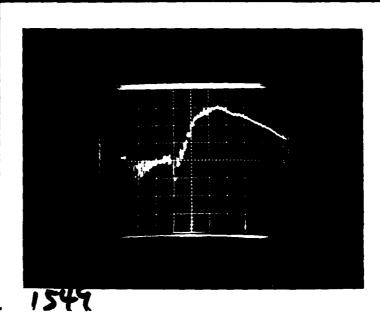
Date		
Test Point		
Amplification	dB	
Attenuetion	dB	
Horizontal	ne/div	1
Vertical	mV/div	1
Horizontal	ne/div	2
Vertical	ne/div	2
Configuration		
Pulser Level		
Date Link		
Comments:		



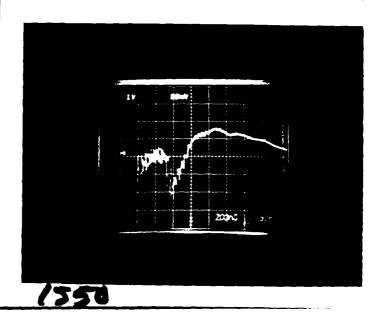
7548

-AFF-

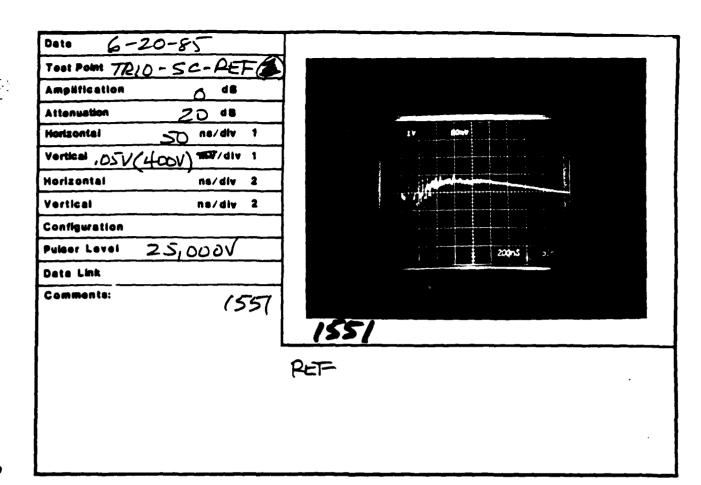
Date 6-20	-85
Tool Point TR9.	
Amplification	0 48
Attenuation	20 40
Horizontal	SO ne/dlv 1
Vertical ,05V	4.00V July 1
Horizontal	ns/div 2
Vertical	ne/dlv 2
Configuration	
Pulser Level	250001
Data Link	
Comments:	1549

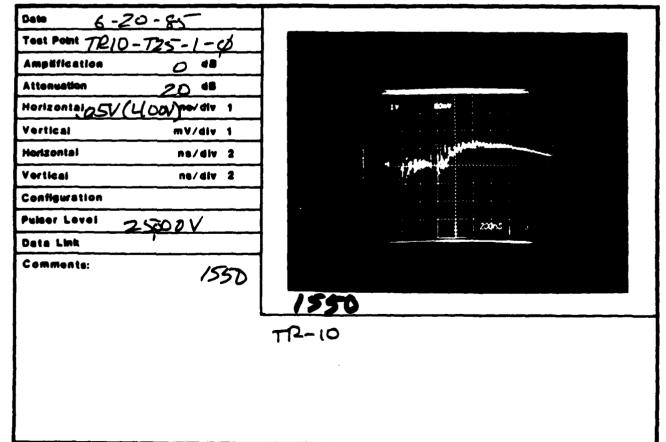


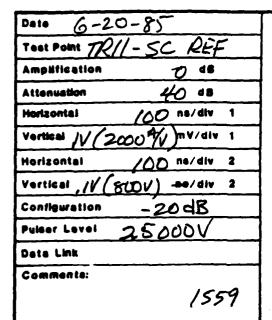
6-20-85 Date Tool Point TR9 - REF -SC AmpHileation ٥ dB Attenuetion d B ne/dlv Horizontal vertical LOSV(400V) Horizontai ns/dlv 2 Vertical ns/dlv Configuration 25000 V Pulser Level Date Link Comments: 1550

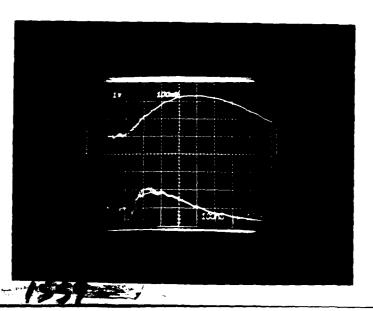


Date		_
Test Point		
Amplification	dB	
Attenuation	48	
Horizontai	ne/div	1
Vertical	mV/dlv	1
Horizontal	ns/div	2
Vertical	ne/div	2
Configuration		
Pulser Level		
Data Link		
Comments:		

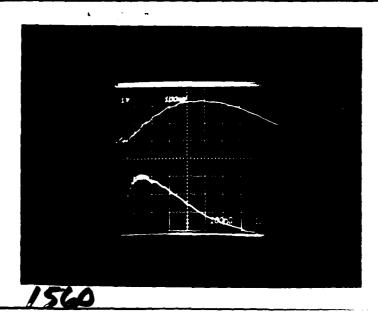




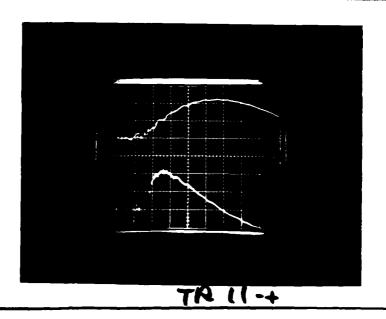




Date G-	20-85
	1-725-1-0
Amplification	0 40
Attenuation	40 48
Horizontal	/60 ne/dlv 1
Vertical JV (20	000 W W/div 1
Horizontal	/00 ne/div 2
Vertical N(8	COV) Aldiv 2
Configuration	-zodB
Pulser Level	25 000V
Data Link	
Comments;	1560



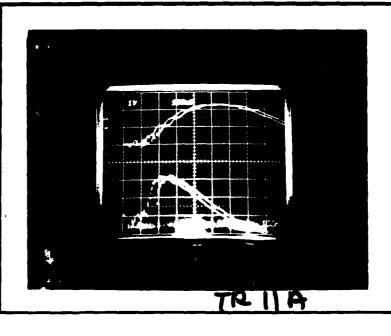
6-20-85 Dete Tool Point TR 11-T25 Amplification 48 Attenuation 40 d B 100 ns/div Horizontal Vertical / M/dlv 1 100 ns/div 2 Horizontal Vertical ms/div 2 11(800V) -20dB Configuration 0001 Pulser Level Data Link Comments: 1563

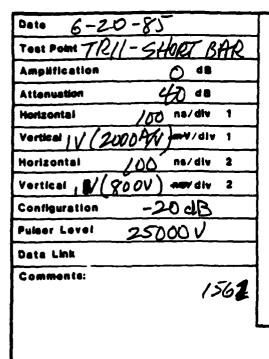


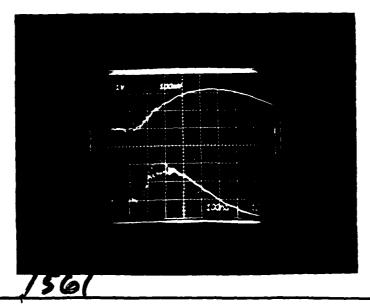
SOLDERED SHORT

TRII + SHORT BAR WIRE

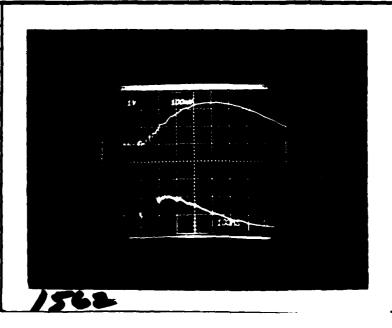
-20-85 Date Tool Point TRILA -T2 Amplification dB Attenuetion dB (00 me/div 1 Horizontal Vertical // mV7div 1 Horizontal /00 ne/div 2 SOOV) HOTELY 2 Vertical , // Configuration Pulser Level Data Link Comments: 1564





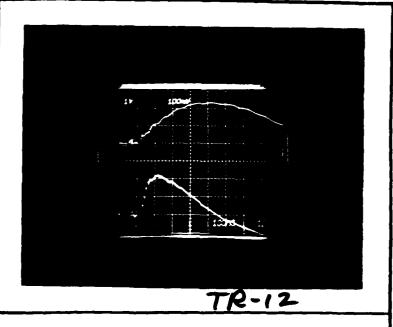


6-20-85 Tool Point TRUI - GND REF **AmpHileation** Attenuation Horizontal Vertical // Horizontal 100 ne/div 2 Vertical . // es/div 2 -zodB Configuration Putser Level Data Link Commente: 1562

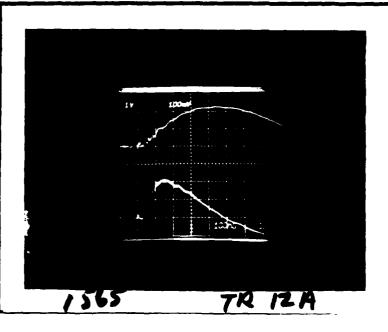


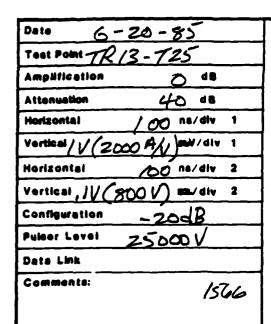
SC GND REF

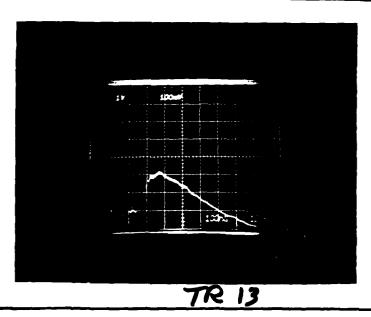
6-20-8 Dete Test Point TRIZ - TZS Amplification d S 40 00 Attenuation Horizontal ns/dlv Vertical , 11/2000 4 /OO ne/div Horizontal Vertical // -20dB Configuration 25000 V Pulser Level Deta Link Comments: 1564



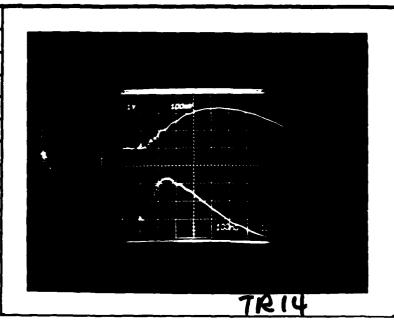
6-20-85 Dete Teel Point TR/2-725 Amplification 48 Attenuetion dB Horizontal ns/dlv 1 2000 No 1 Vertical / Horizontal ne/div 2 Vertical -ne/dly 2 Configuration -2048 Pulser Level 250000 Date Link Comments: 1565

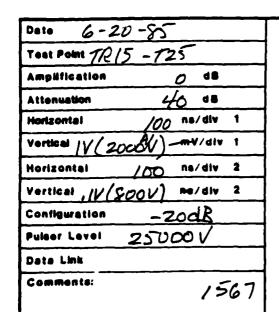


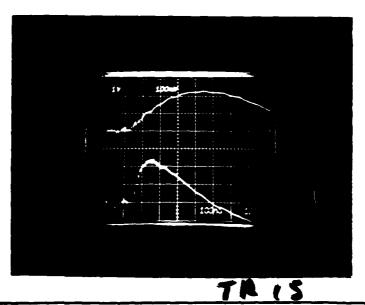




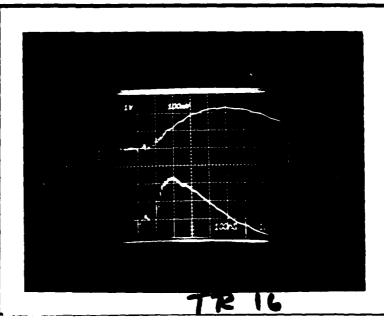
6-20-83 Test Point TR14 - TZ5 ۵ Amplification 48 40 Attenuation 46 Horizontal ne/dlv 1 60 Vertical // 20009 W/div 1 Horizontal 100 ne/div 2 Vertical // me/dly 2 Configuration Pulser Level 250001 Date Link Commente: 1566

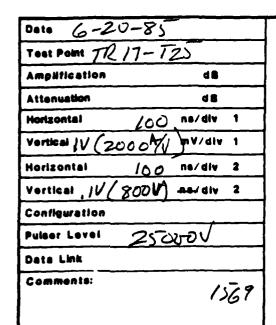


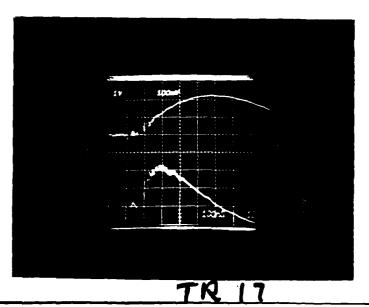


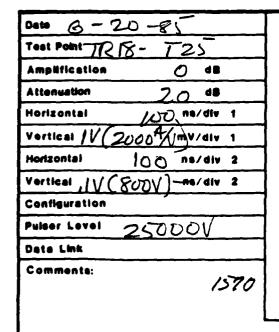


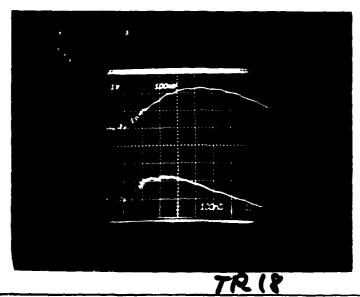
Date 6-	-20-85
Test Point TR	216-725
Amplification	0 48
Attenuation	40 00
Horizontal //	(2000 A)(1) div 1
Vertical	MONS -Widly 1
Horizontal	/00 ne/div 2
Vertical ,IV	GOOV) me/div 2
Configuration	-20dB
Pulser Level	25 000 V
Date Link	
Comments:	1568
	1768

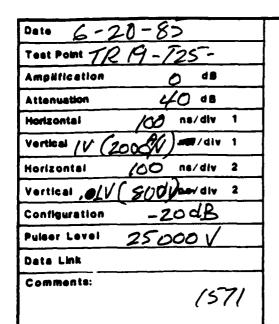


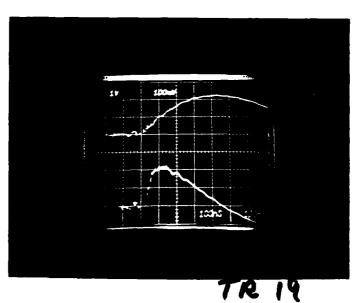


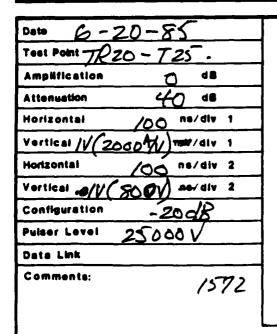


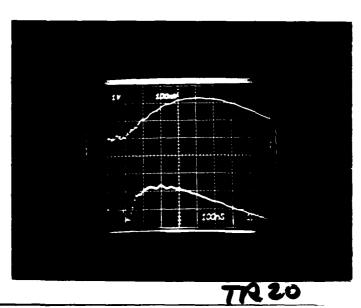


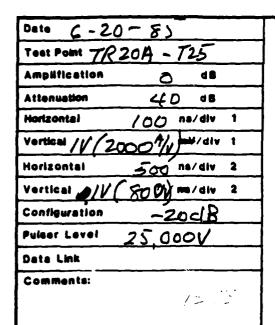


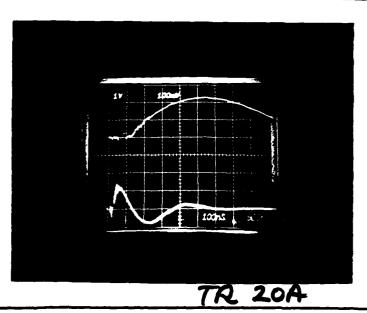




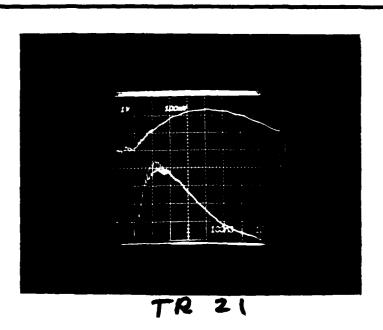


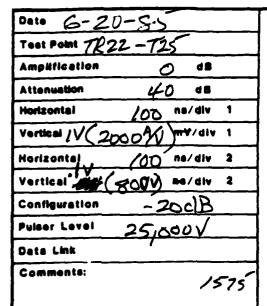


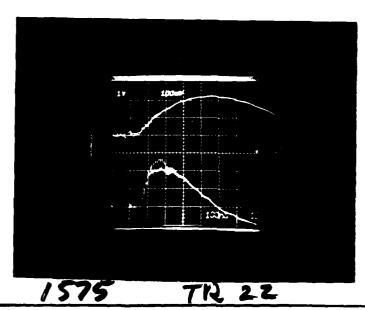




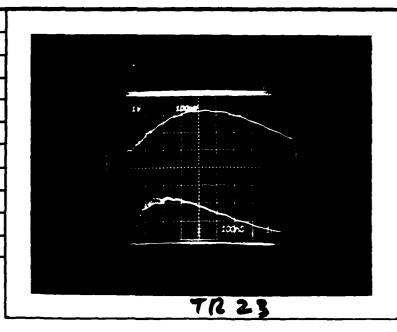
Date 6-20	58 - 6
Test Point TR 2	1-725
AmpHication	O 48
Attenuation	40 00
Horizontal	/00 . ne/dlv 1
Vertical IV (200	ON MININ 1
Horizontal	100 ne/div 2
Vertical #/V(	POON Wdiv 2
Configuration	-20dB
Pulser Level 2	5000V
Data Link	
Comments:	1574

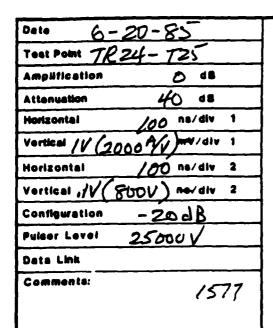


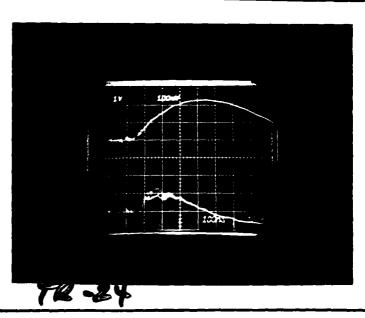




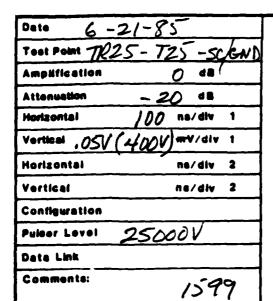
Dete 6-2	0-85
Test Point TRZ	
Amplification	0 48
Attenuation	40 00
Horizontal	/00 ne/dlv 1
Vertical LV (20	100 A/V)=4/div 1
Horizontai	/ma ne/div 2
Vertical '	8000 nerdly 2
Configuration	
Pulser Level	
Data Link	
Comments:	1576

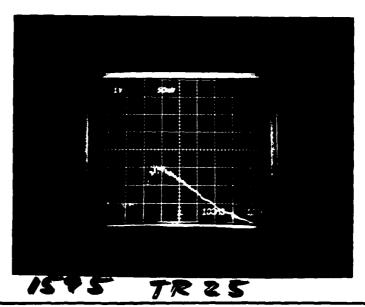






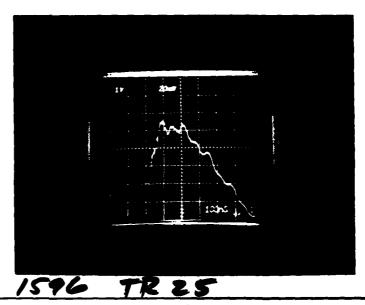
Date		
Test Point		
Amplification	dB	
Attenuation	dS	
Horizontal	ne/dlv	1
Vertical	mV/div	1
Horizontal	ns/div	2
Vertical	ns/dlv	2
Configuration		
Pulser Level		
Date Link		
Comments:		





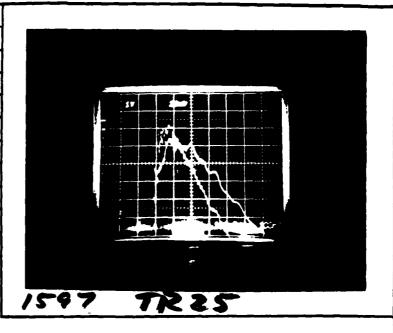
SC REF GND

6-21-85 Date Teet Point TR-25-725-1 -d Amplification 48 Attenuation dS Horizontal ne/dlv 1 Vertical .024 W/dly 1 Horizontal ns/dlv 2 Vertical ne/div 2 Configuration 25000V Pulser Level Date Link Comments: 1596

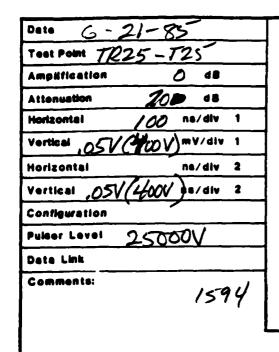


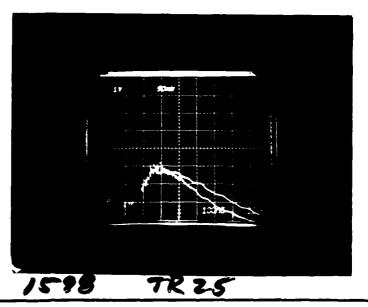
DEVICE TR 25

6-21-85 Dete Test Point 7725- 725-Amplification 46 Attenuation dB ns/div Hortzontal Vertical ,02V ns/div 2 Horizontal Vertical ns/dlv Configuration 25000V Pulser Level Data Link Comments: 1597



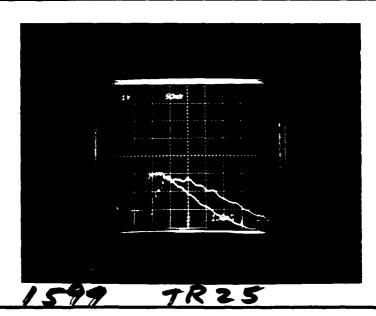
Date		
Test Point		
Amplification	dB	
Attenuetion	48	
Horizontal	ns/dlv	1
Vertical	mV/dlv	1
Horizontal	ns/div	2
Vertical	ne/div	2
Configuration		
Pulsor Level		
Data Link		
Comments:		





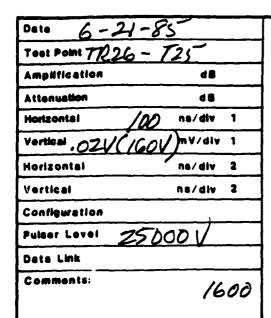
DATA + GND

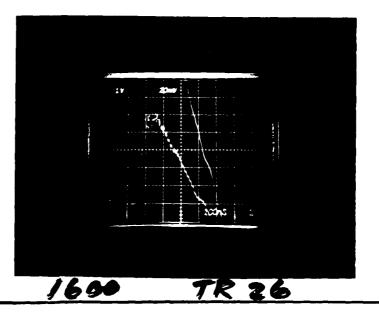
6-21-83 Date Test Point 7725-725-Amplification 48 Attenuation dS Horizontal ne/dlv 1 Vertical , 05 (400V mV/dlv 1 Horizontal ne/div 2 Vertical ne/dlv 2 Configuration 25000 V Pulser Level Data Link Comments:



GND + DEVICE -

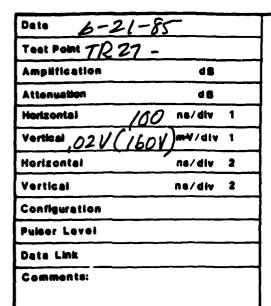
TR 25 = SG FAT COLL (CLOSE UP)

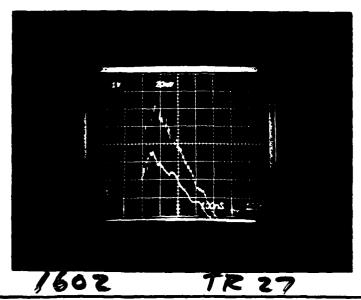




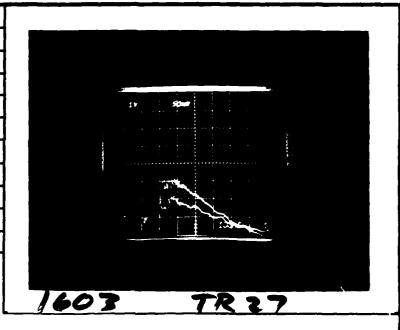
Date 6-2/-	-85		
Test Point TRZG	- 725		
Amplification	48		
Attenuation	46		
Horizontal /	00 ne/dlv 1	17	90ur
Vertical , 05/(4	OV me/div 1		
Horizontal	ne/div 2		1, V
Vertical ,05V(4	00V) mo/div 2	4	
Configuration			
Pulser Level 2	5000V		ac.
Date Link			
Comments:	1601		
	L	1601	TR

TRZG - SG + SMALL OPEN COIL



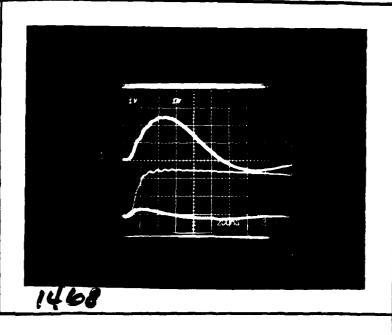


Date 6-21-	
Test Point TR27 -	_
Amplification	48
Attenuation	<b>d8</b>
Horizontal 10	O ne/div 1
Vertical A	MV/dlv 1
Horizontal	ns/div 2
Vertical OSV 40	ODV to/div 2
Configuration	
Pulser Level	
Date Link	
Comments:	

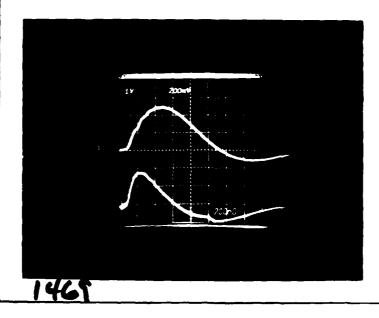


TR 27 = SG + BULLET COIL

6-18-85 -T25-15-9 Test Point Amphilication 40 Attenuation ns/dlv Horizontal 200 Vertical 14 (2000 A/V) -7/div 1 200 ne/div Horizontal Vertical 1V (8000V) =/div 2 - 20 dB Configuration Pulser Level 25,000 V Date Link Comments: 1468

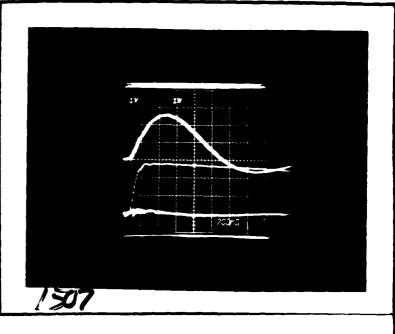


Date 6 18-85 -T25-410-0 Tool Point 1 AmpHileation 40 Attenuation 48 Horizontal 200 ne/div 1 Vertical IV (2000A/V) / div 1 Hortzontal ns/dlv 2 200 Vertical\_AV div 2 -20dB Configuration 25,000 √ Pulser Level Date Link Comments: 1469

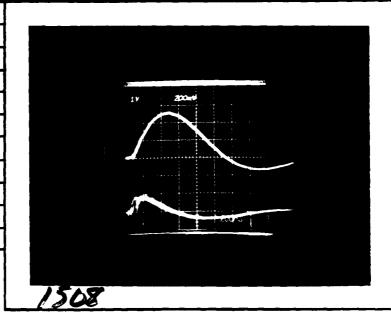


VERTICAL @ , 2V (1600V) per div.

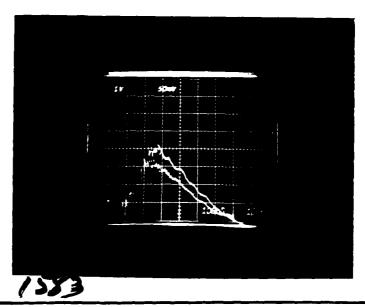
6-19-85 Date Tool Point 2 - T25 - 1/5 - 0 Amplification dB Attenuation ne/div Horizontal 200 Vertical JV (2000 A/V 200 Horizontal ns/div Vertical 1/ (8000 V) ms/div 2 - 20 dB Configuration 25,000 V Pulser Level Date Link Comments: 1500



Date 6-19-85 Test Point 2 - T25 - 6/10 -Amplification 40 Attenuation 48 Horizontal ne/dlv 200 Vertical LV (2000 PN) D/dlv 1 Horizontal ne/dlv 2 200 Vertical .2V (1600 V) m/dlv 2 -20dB Configuration Pulser Level 25,000 V Data Link Comments:



6-21-85 Date Test Point 3 - 725 -Amplification Attenuation -20 dS ns/dlv Horizontai 100 Vertical Horizontal ns/div 2 Vertical ns/div Configuration 25000V Pulser Level Data Link Comments: ど名る



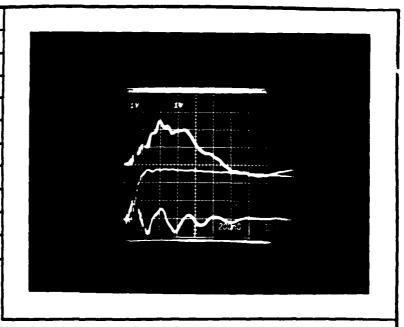
DATA =

SG GND =

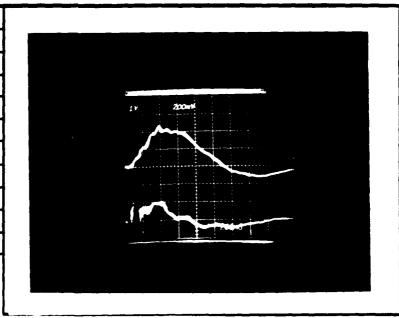
DATA + SC GND REF-

Date 6-27	-85	
Teet Point 3-7	25-	-Ø
Amplification	dB	
Attenuation	dB	
Horizontal	ns/dlv	1
Vertical	mV/dlv	1
Horizontal	ne/div	2
Vertical	ne/div	2
Configuration		
Pulser Level		
Deta Link		
Comments:		

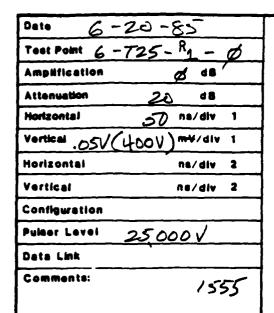
Date 6-19-85 Test Point 3 - 725 - 1/5 -Amplification Attenuetion ns/dlv Hortzontal Vertical IV (2000 A/V 200 ns/div 2 Horizontal Vertical JV (8000 V) me/div 2 - 20 dB Configuration 25,000 V Pulser Level Date Link Comments:

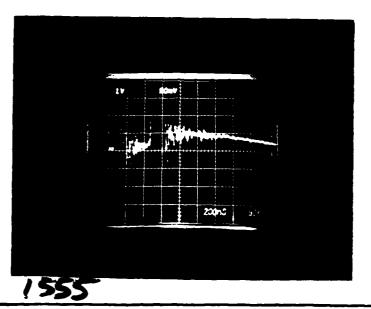


Dem 6-19-85 Test Point 3 - T25 - 6/10 - 0 Amplification 40 Attenuetion dS Horizontal 200 ne/div 1 Vertical LV (2000 PV) Joly 1 Horizontal ne/div 2 200 Vertical .2V (1600 V) -/div 2 Configuration -20dB 25,000 V Pulser Level Date Link Comments:

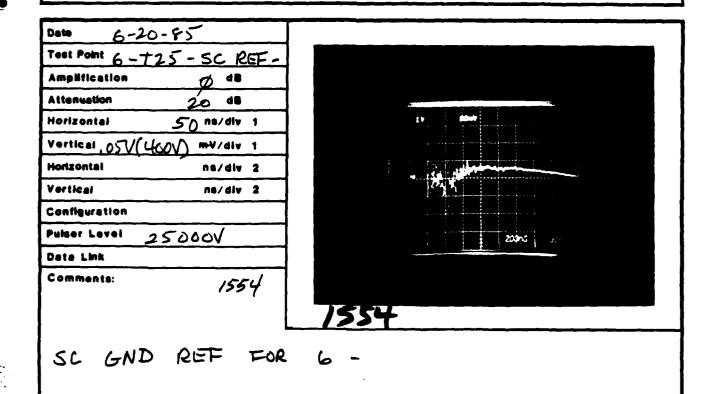


"PULSER RINGING"

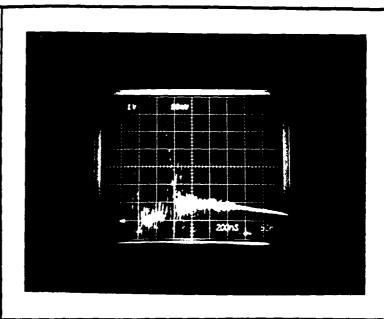




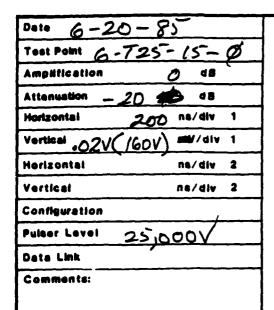
W/GND PLT

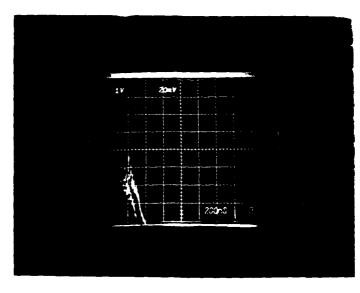


6-20-85 Date Test Point 6 - 725 - 1/2 - \$ Amplification dB Attenuation 20 48 ns/div 50 Horizontal vertical .05V(400V -my/div 1 Horizontal ns/dlv 2 Vertical ns/dly Configuration Pulser Level 25000V Date Link Comments: 1556

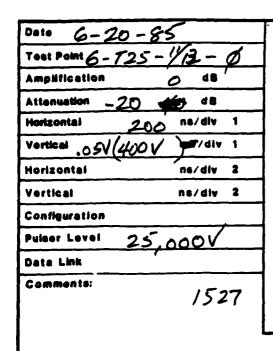


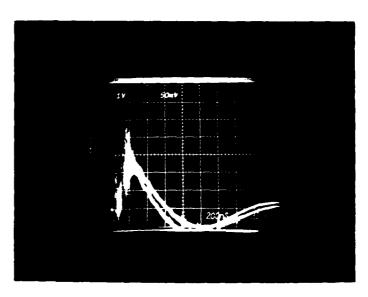
Date		
Test Point		
Amplification	48	
Attenuation	dS	
Horizontal	ne/div	1
Vertical	mV/dlv	1
Horizontal	ne/dly	2
Vertical	ne/dlv	2
Configuration		
Pulser Level		
Data Link		
Comments:		

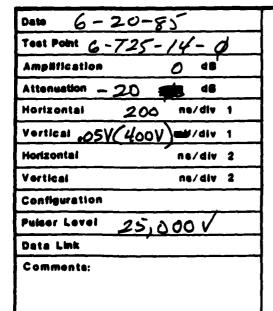


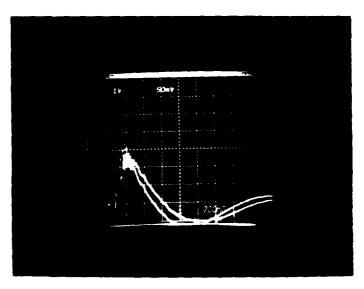


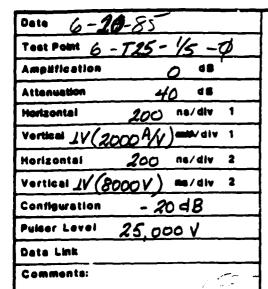
Date		
Test Point		
Amplification	dB	
Attenuation	d₽	
Horizontal	ne/div	1
Vertical	mV/dlv	1
Horizontal	ne/div	2
Vertical	ne/div	2
Configuration		
Pulser Level		
Data Link	<del></del>	
Comments:		

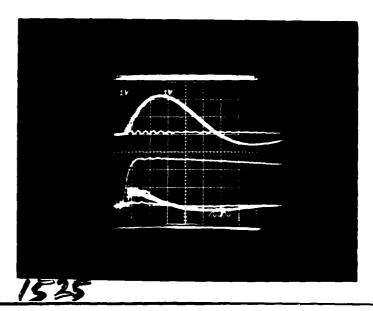




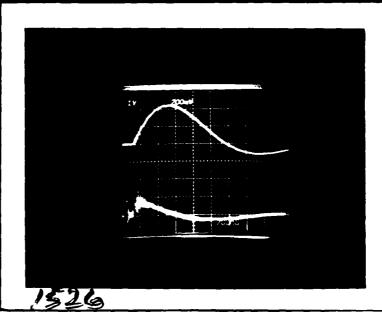




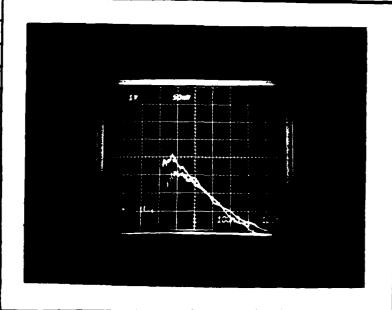




Date 6-26	7-85
	- T25 - 6/10-Ø
Amplification	0 48
Attenuetton	40 48
Horizontal	200 ne/div 1
Vertical LV(2	2000 AV) -101v 1
Horizontal	200 ne/div 2
Vertical .2V	(1600 V) =/div 2
Configuration	-20dB
Pulser Level	25,000 V
Data Link	
Comments:	



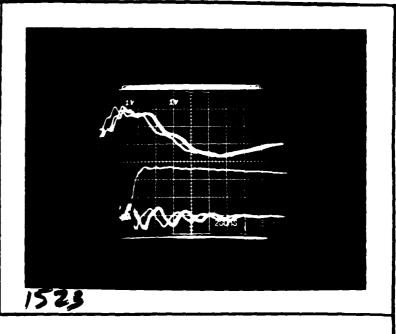
6-21-85 Date Test Point 7-725-8/1-0 Amplification 20 48 Attenuation ns/div Horizontal Vertical mV/dlv 1 Horizontai ne/dly Vertical ns/dly Configuration Pulser Level 250001 Data Link Comments: 134



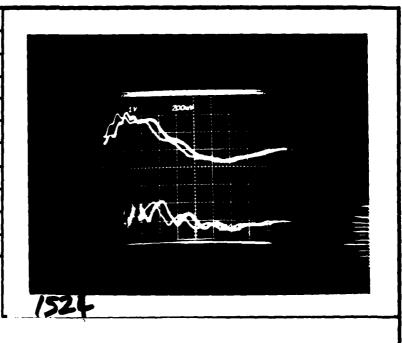
DATA = 1150 SG GND = 800 350 V DATA+ SC GND REF-

Date		
Test Point		
AmpHilication	48	
Attenuation	48	
Horizontal	na/điv	1
Vertical	mV/div	1
Horizontal	ns/div	2
Vertical	ns/dlv	2
Configuration		
Pulser Level		
Dete Link		
Comments:		

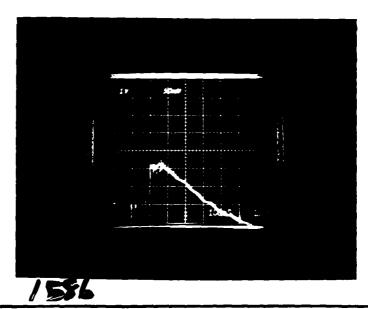
Date Tool Point 7 - 725 -Amplification Attenuation 48 ns/dlv Horizontal Vertical IV 200 Horizontai ns/dly Vertical IV (8000 V ms/dly - 20 dB Configuration 25,000 V Pulser Level Data Link Comments:



6-19-85 Dete Test Point 7 - T25 - 6/10 - 8 Amplification 48 40 48 Attenuetion ne/dlv 1 Horizontal 200 Vertical LV( B/dlv 1 Horizontal ne/div 2 200 m/dly 2 Vertical . 2V ( 1600 V) Configuration -20dB Pulser Level 25,000 V Date Link Comments:

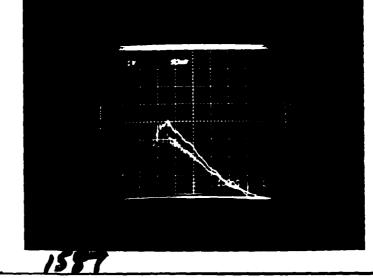


6-21-85 Dete Tool Point 8-725-R Amplification Attenuation dB Horizontal ns/dlv 100 vertical . 05 V (400 V mY/dlv 1 Horizontal ne/div 2 Vertical ns/dlv Configuration 25000 Pulser Level Data Link Comments: 5-5

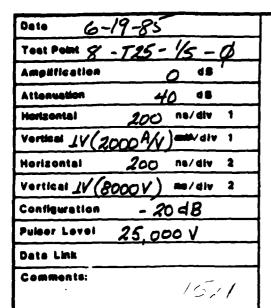


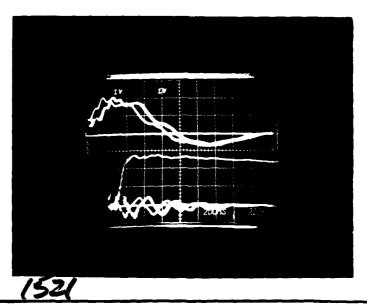
DATA + SC GND DET

Date	
Test Point	
AmpHileation	dB
Attenuation	46
Horizontal	ne/dlv 1
Vertical	mV/dlv 1
Horizontal	ne/div 2
Vertical	ne/div 2
Configuration	
Pulser Level	
Deta Link	
Comments:	1587

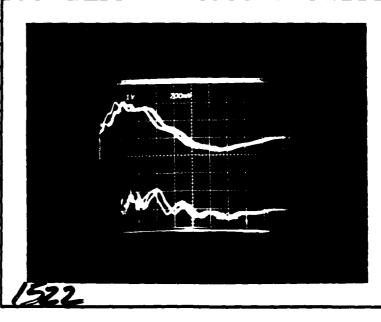


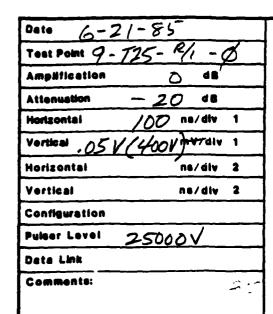
PETENT ABOVE

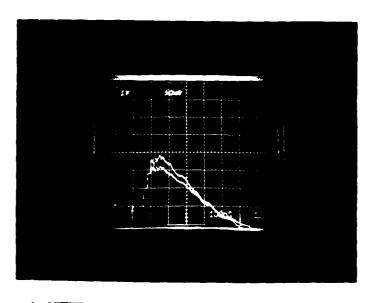




Date 6-/	9-85	
	-T25 - 6/10-D	
Amplification	0 48	
Attenuetion	40 48	
Horizontal	200 ne/div 1	
Vertical LV(2	2000 AV) -/div 1	
Horizontal	200 ne/dly 2	
Vertical .2V (1600 V) =/div 2		
Configuration	-20dB	
Pulsor Lavel	25,000 V	
Date Link		
Comments:	·- 0	
	-12	



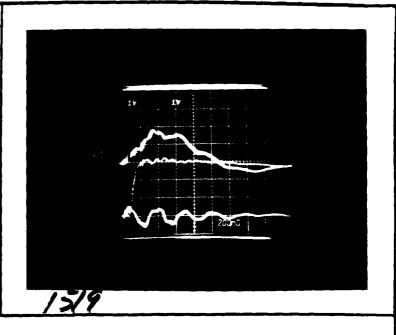




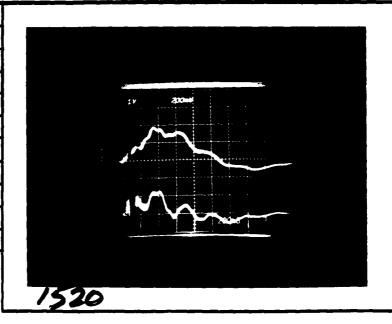
DATA + SC GND REF -

Date		
Test Point	<del></del>	
Amplification	48	
Attenuetion	dB	
Horizontal	ne/dlv	1
Vertical	mV/div	1
Horizontal	ne/div	2
Vertical	ne/dly	2
Configuration		
Pulser Level		
Data Link		
Comments:		

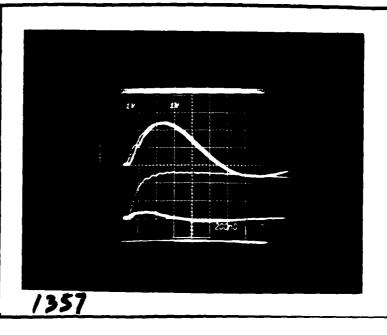
6-19-85 Date Test Point 9- T25-15-0 Amplification Attenuation ds ne/div Horizontal Vertical JV (2000 A 200 ns/div Horizontal Vertical JV (8000 V) ms/dly 2 - 20 dB Configuration Pulser Level 25,000 V Data Link Comments:

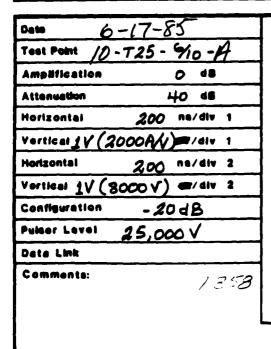


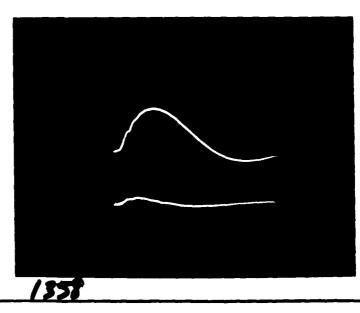
6-19-85 Date Test Point 9 - T25 - 6/10-0 Amplification 48 40 dS Attenuetion ns/dlv 1 Horizontal 200 Vertical LV (2000 AV) -/div 1 Horizontal 200 ns/dlv 2 Vertical .2V (1600 V) =/41V 2 -20dB Configuration 25,000 V Pulser Level Date Link Comments:

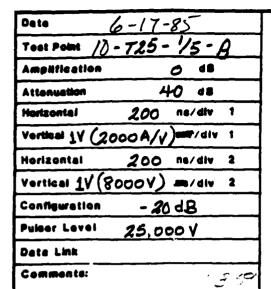


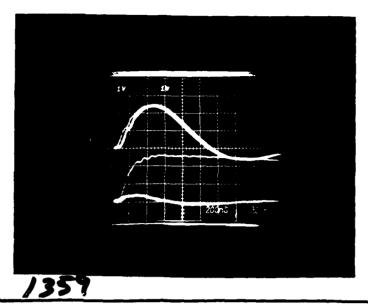
6-17-85 Date Tool Point 10 - 725 - 1/5 - A Amplification dB 40 dB Attenuetion ns/dlv Herizontal 200 Vertical 17 (2000 A/V) /div 1 200 ne/dly Horizontal Vertical 1V (8000V) =/div - 20 dB Configuration Pulser Level 25,000 V Deta Link Comments: 1357



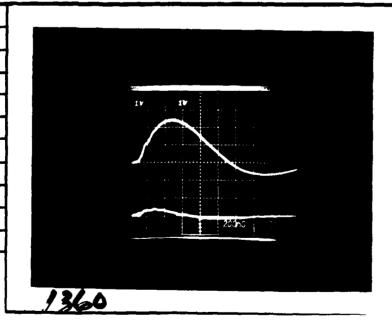


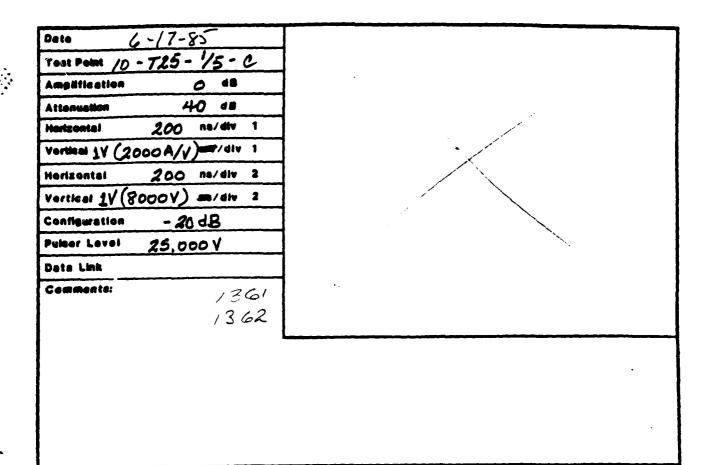


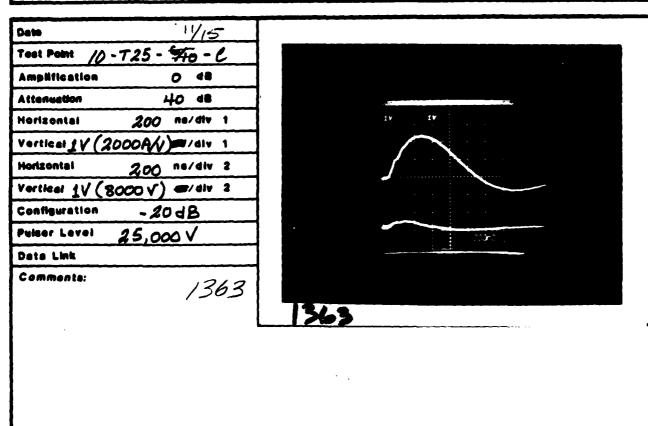




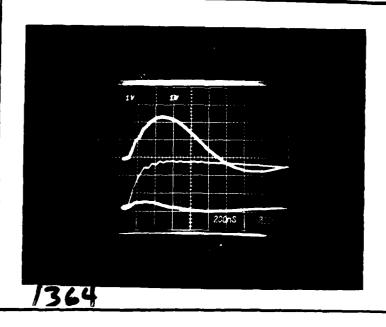
Date 6-	-17-85
	T25-410-B
Amplification	0 48
Attenuation	40 48
Horizontal	200 ne/dlv 1
Vertical JV (2	000A/V)=/dlv 1
Horizontal	200 ns/div 2
Vertical 1V (8	000 V) 4 div 2
Configuration	-20dB
Pulser Level	25,000 √
Data Link	
Comments:	

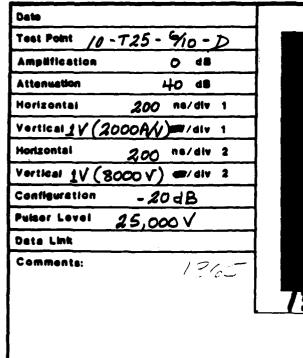


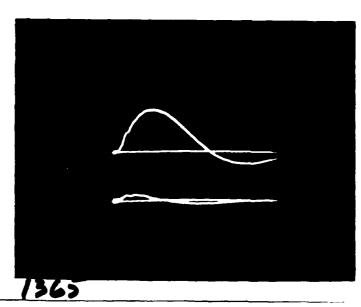




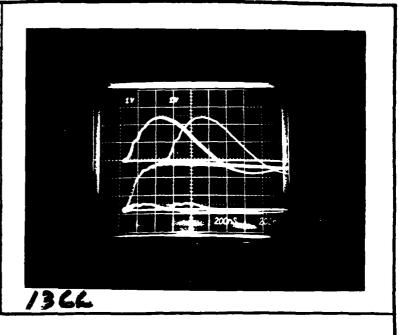
6-17-85 Dete Tool Point 10-725-15-D Amplification 40 Attenuetion 45 ns/dlv Hortzonte! 200 Vertical 14 (2000 A/V) - div 200 ns/div Horizontal Vertical 1V (8000V) -/div 2 Configuration - 20 dB Pulser Level 25,000 V Date Link Comments: 1364



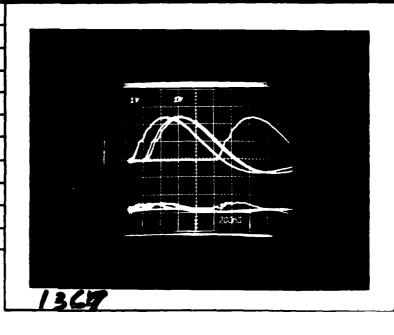


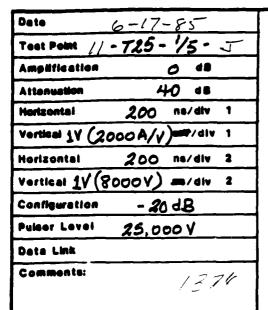


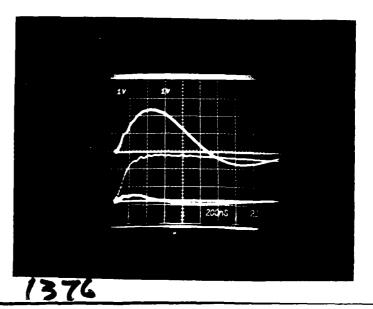
6-17-85 Dete 10-T25-15-E Test Point Amplification 40 Attenuetten 48 200 ns/div Herizontal Vertical 14 (2000 A/V) = 1/div 1 200 ne/div Horizontal Vertical 1V (8000V) =/div - 20 dB Configuration Pulser Level 25,000 V Data Link Comments: 12/6

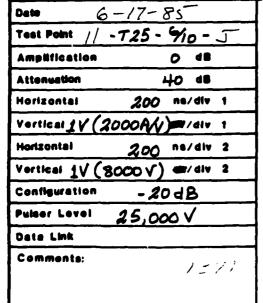


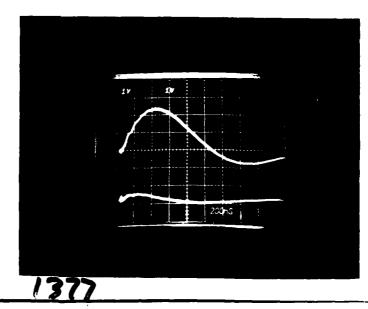
Date 10-T25- 410-E Test Point dB Amplification 0 Attenuation 40 48 Horizontal 200 ne/dlv 1 Vertical 1V (2000A/V) /div 1 Horizontai ns/div 2 200 div 2 Vertical 1V (8000 V) -20dB Configuration 25,000 V Pulser Level Data Link Comments:



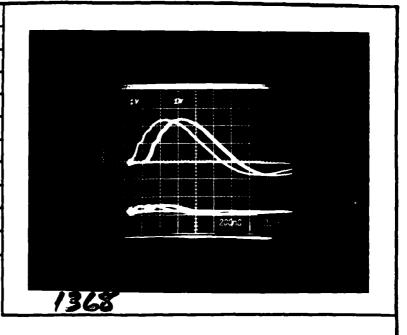




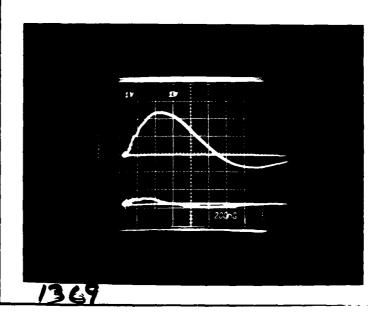




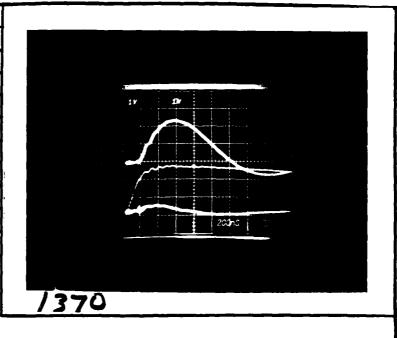
6-17-85 Date 1-T25-15-F Test Point 0 Amplification ds 40 dB Attenuetion ns/dlv 200 Harizontal Vertical 1V (2000 A/V) -/div 1 200 ns/div Horizontal Vertical 1V (8000V) =/div 2 -20 dB Configuration 25,000 Y Pulser Level Date Link Comments: 1363



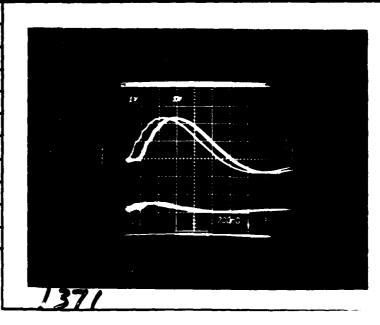
Date E	5-17-85	
Test Point //-	T25-910-F	
Amplification	0 48	
Attenuation	40 d8	
Horizontal	200 ne/dlv 1	
Vertical 1 V (2)	000AN)=1/div 1	
Horizontal	200 ne/div 2	
Vertical 1V (8000 V) -/div 2		
Configuration	-20dB	
Pulser Level	25,000 V	
Data Link		
Comments:	1.347	
}		



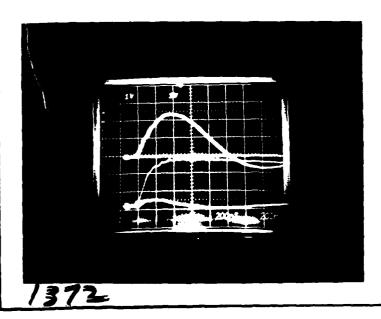
Date 11-725-15-G Test Point Amplification dB 0 40 48 Attenuetion 200 ns/div Hertzentel Vertical 14 (2000 A/V) -/div 1 200 ne/dly 2 Horizontal Vertical 1V (8000V) =/div -20 dB Configuration 25,000 V Pulser Level Date Link Comments: 1370



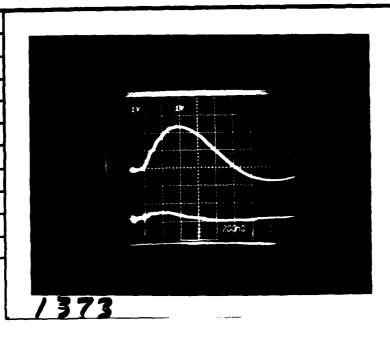
Dete (	- 17-85
Test Point // -	T25-410-G
Amplification	0 48
Attenuation	40 dB
Horizontal	200 ne/dlv 1
Vertical 17 (20	000AN)=/div 1
Horizontal	200 ne/div 2
Vertical 1V (8	000 V) -/div 2
Configuration	-20dB
Pulsor Level	25,000 V
Date Link	
Commente:	1371

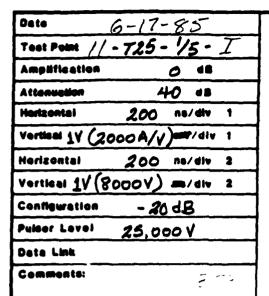


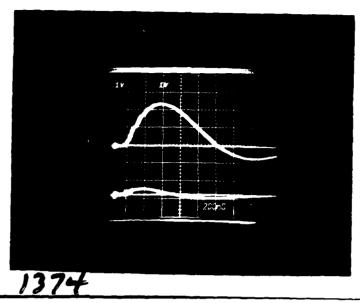
6-17-85 1-**725-1/5-**H Date Teet Point Ampatication 40 48 ns/dly 200 Hertzentel Vertical 14 (2000 A/V) -7/div 1 200 me/div Horizontal Vertical 1V(8000V) =/div - 20 dB Configuration 25,000 V Pulser Level Date Link Comments:



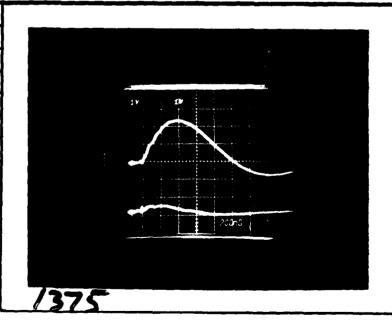
6-17-85 Date -T25-410-H Teet Point dB Amplification 0 40 Attenuation dS ne/dlv 1 200 Horizontal Vertical 14 (2000A/V) 1/div 1 ne/div 2 Horizontal 200 div 2 Vertical 1V (8000 V) -20dB Configuration 25,000 V Pulser Level Dete Link Comments:

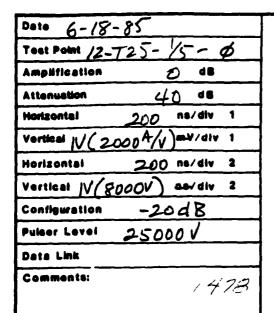


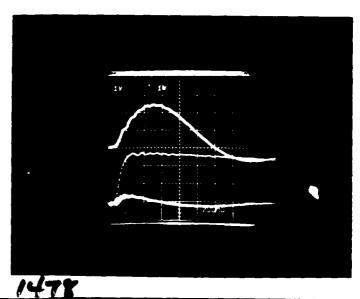




Date (	6-17-85
Test Point //.	-T25 - 410 -I
Amplification	0 48
Attenuation	40 de
Horizontal	200 ne/dlv 1
Vertical 17 (2	000A/V)=1/div 1
Horizontal	200 ne/div 2
Vertical 1V (8	000 V) -/dlv 2
Configuration	-20dB
Pulser Level	25,000 √
Data Link	
Comments:	/ 37:-
	<del>-</del> /



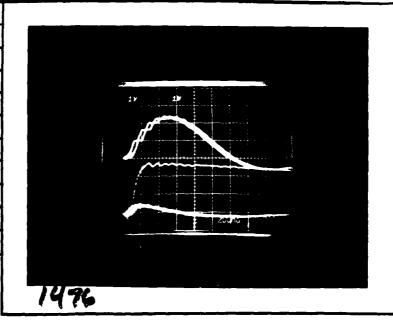




"COMMON" LEAD TEST

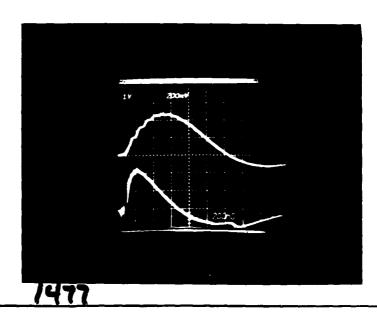
6-18-85 Date Test Point 12 - T25 - 6/10 - 6 Amplification 48 Attenuation Horizontai ne/dlv 1 Vertical IV (2000 AN mw/div 1 Horizontal ne/div 2 200 1600 V) 4 div 2 Vertical .2V -20 dB Configuration 25,000V Pulser Level Data Link Comments: "COMMON" LEAD TEST

Date 6-18-85 Test Pom /2 - 725 - 1/5 - Ø Ampulleation 40 Attenuation 48 ne/div Hertsontal 200 Vertical 14 (2000 A/V) - div 1 200 ne/div Horizontal Vertical 1V (8000V) -/div 2 - 20 dB Configuration Pulser Level 25,000 V Date Link Comments: JOSLYN



"HOT" LEAD

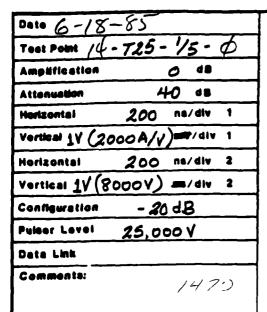
6-18-85 Dete Test Point 12-T25-910-Amplification Attenuation 40 de 200 ne/dly 1 Horizontal Vertical 1 V (2000A/V) -/div 1 Horizontal 200 ne/dly 2 Vertical deliceration - div 2 Configuration -20dB Pulser Level 25,000 √ Data Link Commente: JOSLYN-

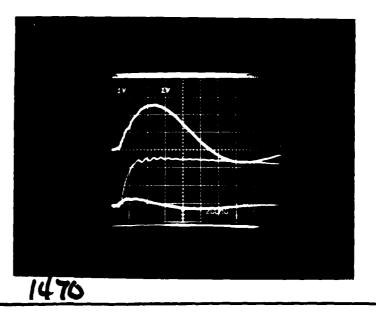


"HOT" LEAD

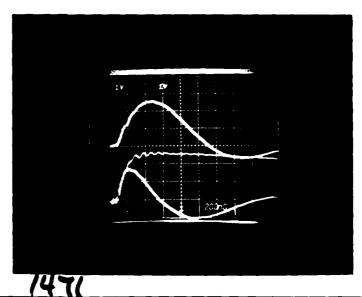
VERTICAL Y @ .2 V (1600V) por div.

ARCH BETWEEN FRONT + BACK PLATET / COVERS .



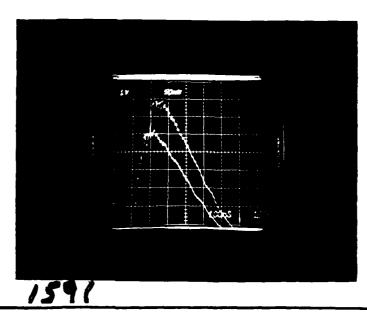


6-18-85 -T25 - 410 - Ø Test Point Amplification Attenuetion 40 48 ne/dlv 1 Horizontal 200 Vertical 1 V (2000A/V) -/div 1 Horizontal 200 Vertical 11 (SOCOV) 4 div 2 -20dB Configuration 25,000 V Pulser Level Date Link Comments:



VERTICAL @ ,2V (1600V) per diù.

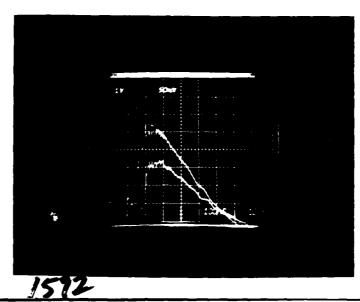
Date 6-21-85 Test Point 19-725-8/1-A Amplification 48 Attenuation 48 ns/dlv Horizontal -mV/dlv vertical ,05V (400V) Horizontal ns/div Vertical ns/div Configuration 25000V Pulser Level Data Link Comments: 1571



DATA + S@ PUF GND

Date	
Test Point	
AmpHication	dB
Attenuation	dB
Horizontal	ne/dlv 1
Vertical	mV/div 1
Horizontal	ne/div 2
Vertical	ne/dly 2
Configuration	<del></del>
Pulser Level	
Data Link	
Comments:	

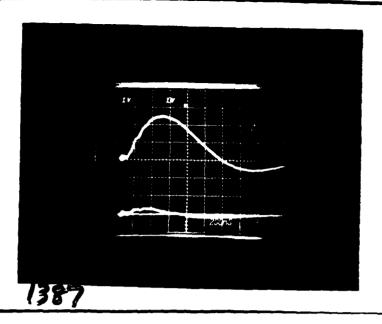
Date 6-21-85
Test Point 23-725-P/1 - A Amplification 48 Attenuation 46 ns/dlv Hortzontal Vertical Horizontal ns/dlv Vertical ns/dlv Configuration Pulser Level Data Link Comments:



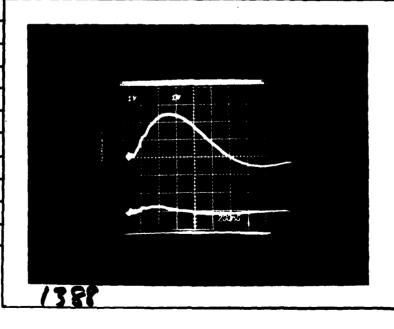
DATA+ SC REF GND

Date		_
Test Point		
Amplification	dB	
Attenuation	48	
Horizontal	ne/dlv	1
Vertical	mV/dlv	1
Horizontal	ne/div	2
Vertical	ne/dlv	2
Configuration		
Pulser Level		
Data Link		
Comments:		

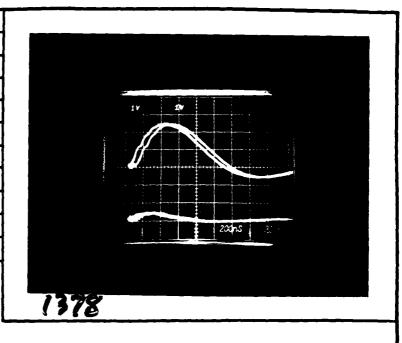
6-17-85 Tool Point 25-725-15-D Amplification Attenuellen 40 48 ns/div 200 Herizontal Vertical 14 (2000 A/V) -/div 1 200 ne/dlv 2 Horizontal Vertical 14 (80004) =/div 2 - 20 dB Configuration Pulser Level 25,000 V Date Link Comments: 1387



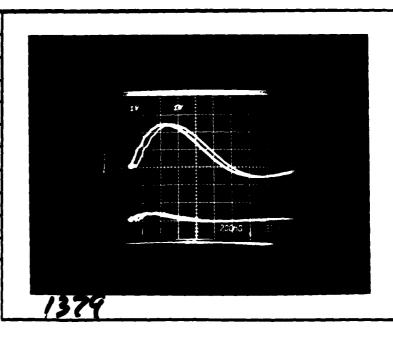
6-17-85 Teet Point 25-725 - 910 - D AmpHilestion 0 48 Attenuation 40 48 200 ne/dly 1 Horizontal Vertical JV (2000AV) 1/div 1 200 ne/div 2 Horizontal Vertical 1V (8000 V) 4 div 2 -20dB Configuration Pulser Level 25,000 V Data Link Comments: 1330



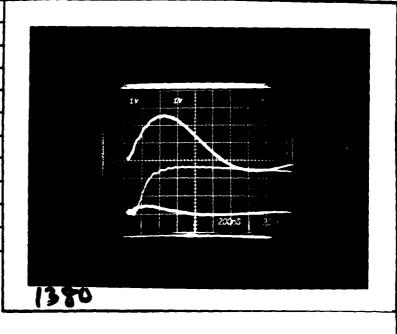
6-17-85 Dete Tool Point 26 - 725 - 1/5 - A 0 48 Amplification 40 ds Attenuetion ns/dlv Herizontal 200 Vertical 17 (2000 A/V) - div 1 200 ns/div 2 Horizontei Vertical 1V (8000V) =/41v 2 - 20 dB Configuration Pulser Level 25,000 V Data Link Comments:



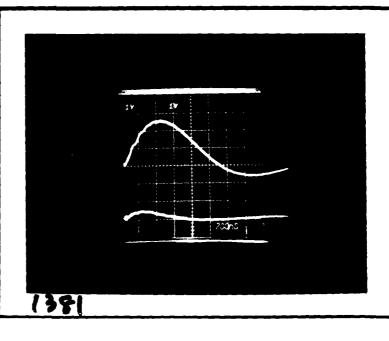
6-17-85 Test Point 26 - T25 - 910 - A 0 48 Amplification 40 dB Attenuetion 200 ne/dly 1 Horizontal Vertical JV (2000A/V)=/div 1 Horizontal ns/div 2 200 Vertical 1V (8000 V) -/dlv 2 -20dB Configuration Pulser Level 25,000 V Date Link 1:7-1 Comments:



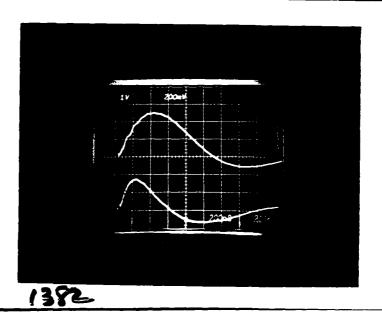
6-17-85 Dete Teet Peim 26-725-1/5-8 0 48 Amplification 40 ds Attenuetion ns/div 200 Hortzontal Vertical 1V (2000 A/V) 200 ns/div Horizontal Vertical 14 (80004) =/div - 20 dB Configuration Pulser Level 25,000 V Date Link Comments: 1330



Date 6-17-85 Test Point 26 - T25 - 410 - B Amplification 0 48 40 48 Attenuetion 200 ne/dly 1 Horizontal Vertical 1 ( 2000 A/V ) = /div 1 200 ne/div 2 Horizontal Vertical 1V (8000 V) 47/dlv 2 -20dB Configuration Pulser Level 25,000 V Date Link Comments: 1561



6-17-85 Date Test Point 26 -725 - 11- B Amplification 0 40 dB Attenuation Horizontal vertical IV (2000 A/VinV/dIV 200 ne/div Horizontal Vertical .2V((600)Weldiv -20dB Configuration 25000 V Pulser Level Data Link Comments: 1382

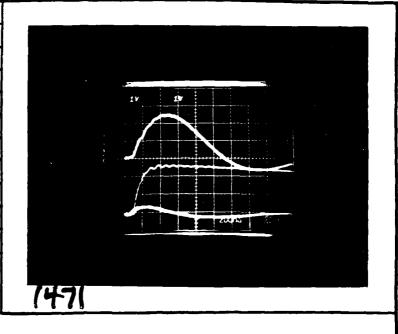


VOLTAGE @ 12U (1600V) per die

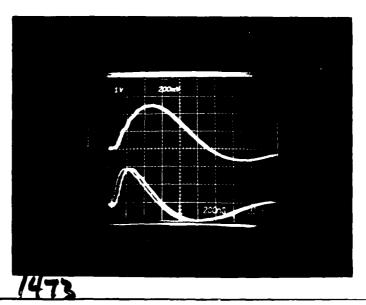
Date		
Test Point		
Amplification	48	
Attenuation	48	
Horizontal	ne/dlv	1
Vertical	mV/div	1
Horizontal	ns/div	2
Vertical	ne/dly	2
Configuration		
Pulser Level		
Data Link		
Comments:		-

## (REPEAT TEST)

Date 6-18-85 Tool Point 26-725-15-C Amplification 45 Attenuetion 40 ds Horizontal ns/dlv 200 Vertical 14 (2000 A/V) -7 div 1 200 ns/div Horizontal Vertical 17 (80007) -/div 2 - 20 dB Configuration Pulser Level 25,000 V Data Link Comments:

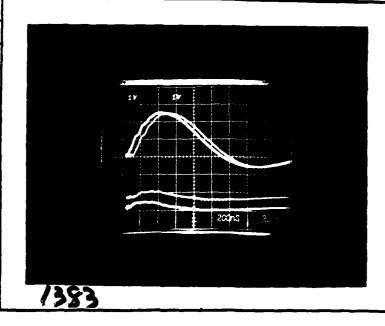


6-18-85 Date Test Point 26-725-910-C Amplification 0 48 Attenuation 40 ds Horizontal 200 ne/div 1 Vertical IV (2000AV) 1/div 1 200 ne/div 2 Horizontal Vertical 11 (Coop) 4/div 2 -20dB Configuration Pulser Level 25,000 V Date Link 1472 Comments:

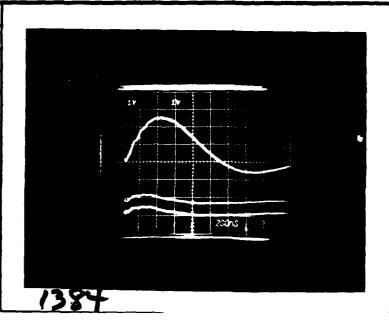


VERTICAL @ .2V (1600V)

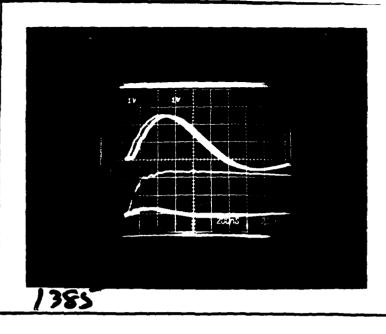
6-17-85 Date Test Point 26-725-15-C Amplification 0 Attenuetion 40 ds Horizontal 200 ns/div Vertical 14 (2000 A/V) -/div 1 200 ne/div 2 Horizontal Vertical 14 (80004) =/div 2 - 20 dB Configuration Pulser Level 25,000 V Date Link Comments: =22



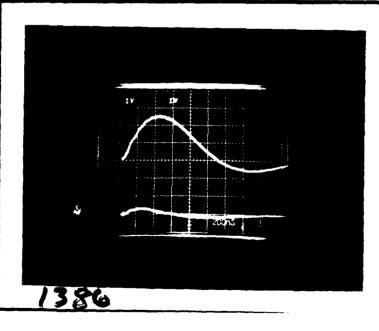
6-17-85 Test Point 26-T25-910-C 0 48 Amplification **notionestia** 40 48 200 na/dly 1 Horizontal Vertical 1 V (2000AN) 1/div 1 200 na/div 2 Horizontal Vertical 1V (8000 V) -/div 2 Configuration -20dB Pulser Level 25,000 V Date Link Comments:



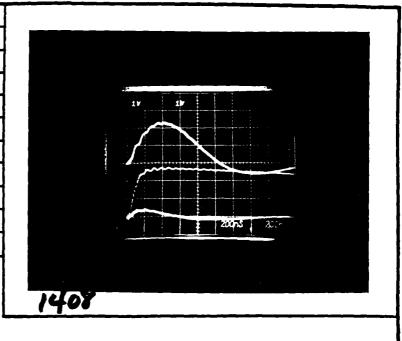
Dete Test Point 26-725-15- D Amplification 48 0 40 ds Attenuation ns/dlv Herizontal 200 Vertical 1V (2000 A/V) att /div 1 200 ne/dly 2 Horizontal Vertical 17 (8000Y) =/div 2 - 20 dB Configuration Pulser Level 25,000 V Date Link Comments:



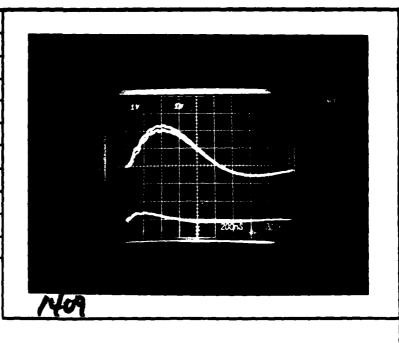
6-17-85 Dete Test Point 26-T25-910-D 0 48 Amplification Attenuation 40 48 Horizontai 200 ne/dlv 1 Vertical IV (2000A/V) / div 1 Horizontal ne/div 2 200 Vertical 1V (8000 V) -/div 2 Configuration -20dB Pulser Level 25,000 V Data Link 1226 Comments:



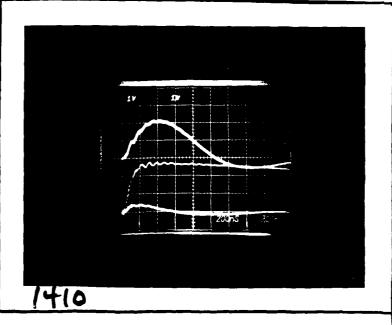
6-18-85 Date Tool Polit 27 - 725 - 15 - D 0 48 Amphilication 40 48 Attenuation ns/div 200 Herizontai Vertical 14 (2000 A/V) mar/div 1 200 ns/div 2 Horizontal Vertical 14 (80004) =/div 2 - 20 dB Configuration Pulser Level 25,000 V Date Link Comments: 1.292



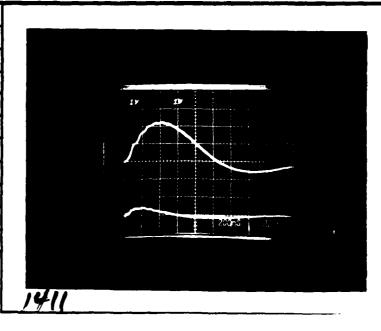
6-18-85 Date Teel Point 27-T25-910-D Amplification Attenuation 40 48 200 ne/dly 1 Horizontal Vertical 17 (2000A/V)=/div 1 200 ne/div 2 Horizontal Vertical 1√ (8000√) **4**/div 2 Configuration -20 dB 25,000 V Pulser Level Date Link Comments:



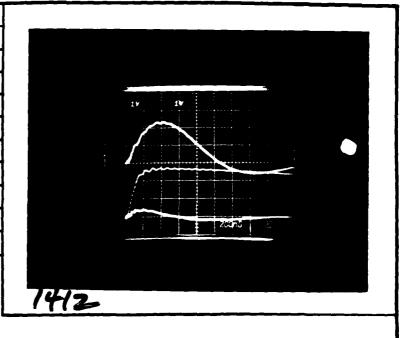
6-18-85 Dete Teet Point 28 - 725 - 1/5 - A Amplification Attenuation 40 48 ns/dlv Hertzentei 200 Vertical 1V (2000 A/V) 200 ns/dlv 2 Horizontal Vertical 1V (8000V) =/div - 20 dB Configuration 25,000 V Pulser Level Date Link Comments:



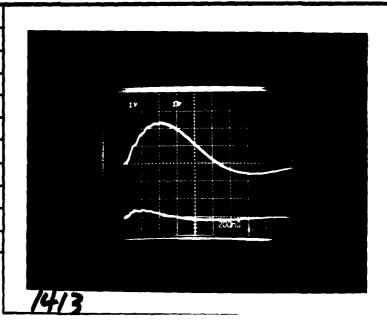
6-18-85 Date Test Point 28-725 - 910 -A 48 Amplification Attenuetton 40 48 Horizontal ne/dlv 1 200 Vertical 1 V (2000A/V) 1/div 1 Horizontal ne/div 2 200 Vertical 1V (8000 V) -/ div 2 Configuration -20dB Pulser Level 25,000 V Data Link Comments: 14

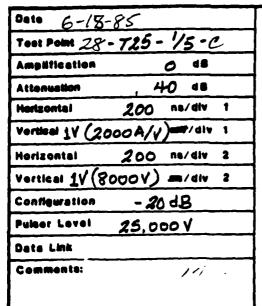


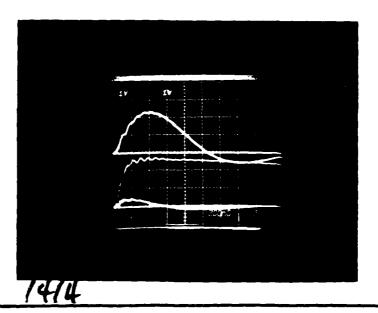
6-18-85 Dete Tool Point 24 - 725 - 1/5 - B Amplification 48 0 Attenuetten 40 ds ns/div 200 Horizontal Vertical 14 (2000 A/V) - div 200 ns/div Horizontal Vertical 14 (80004) =/414 - 20 dB Configuration Pulser Level 25,000 V Data Link Comments:



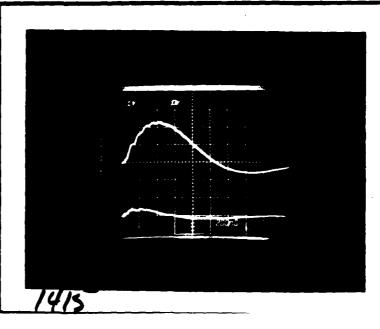
Date 6-18-85 Test Point 28-725-910-8 48 AmpHilestion 40 48 Attenuetion 200 Horizontel ne/dlv 1 Vertical\_1 (2000A/V)=/div 1 Horizontal ns/div 2 200 Vertical 1V (8000 V) 4 div 2 Configuration -20dB 25,000 V Pulser Level Data Link 47E Comments:





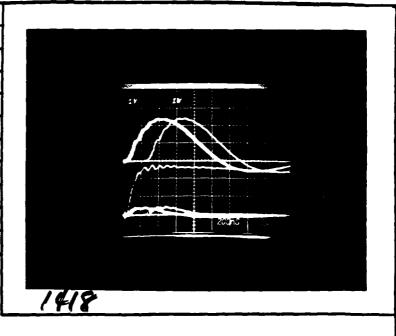


Date 6-18	-85
Test Point 28 -	T25-410-C
Amplification	0 48
Attenuation	40 48
Horizontal	200 ne/dly 1
Vertical 1V (2)	000AN)=/div 1
Horizontai	200 ne/div 2
Vertical 1V (8	000 V) =/div 2
Configuration	-20dB
Pulser Level	25,000 V
Data Link	
Comments:	
	<del></del> -



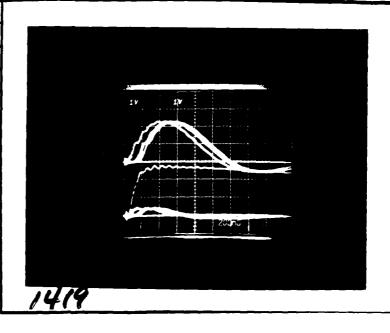
6-17-85 Tool Point 28-725-15-D 0 48 Amplification Attenuation 40 dB Horizontal 200 ns/div Vertical 14 (2000 A/V) - div 1 200 ne/div Horizontal Vertical 17 (80007) =/div 2 - 20 dB Configuration Pulser Level 25,000 V Date Link Comments:

#12-17 pulses

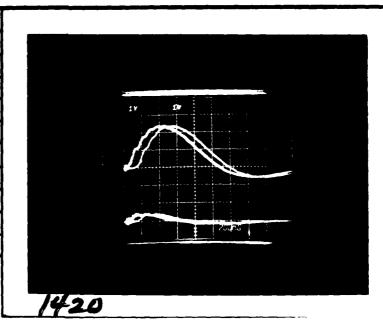


Dete 6-17-85 Test Point 28-725-910-D Amplification 40 48 Attenuetton 200 ne/dly 1 Horizontal Vertical 1V (2000AV) 1/div 1 200 ne/div 2 Horizontal Vertical 1V (8000 V) -/div 2 -20dB Configuration 25,000 V Pulser Level Date Link Comments:

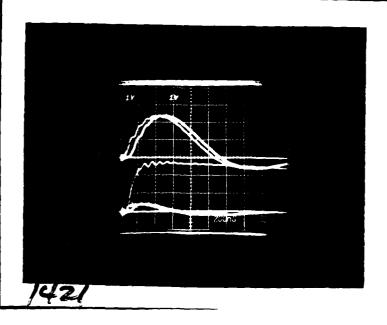
6-18-85 Date Test Point 29 - 725 - 1/5 - D Amplification Attenuation 40 48 ns/div 200 Horizontal Vertical 17 (2000 A/V) -7/div 1 200 ne/dly Harizontai Vertical 14 (80004) =/div 2 - 20 dB Configuration 25,000 V Pulser Level Date Link Comments: 1417



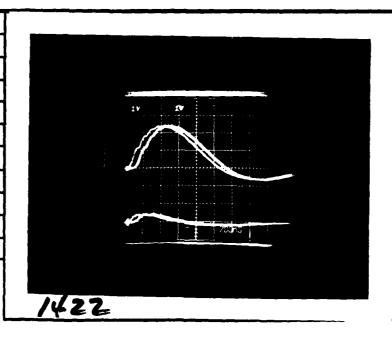
6-18-85 Date Test Point 29 - T25 - 910 - D Amplification 40 48 Attenuetton 200 ne/dlv 1 Horizontal Vertical 1V (2000A/V) -/div 1 200 ne/div 2 Horizontal Vertical 1V (8000 V) -/div 2 -20dB Configuration Pulser Level 25,000 V Data Link Comments:



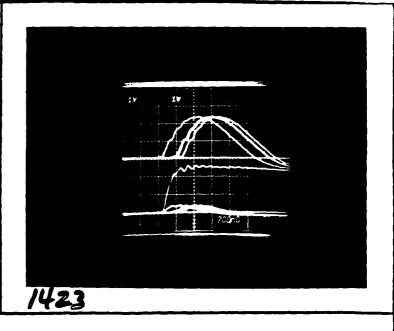
Date 6-18-85 Test Point 30-725-1/5-A Amplification 0 40 đĘ Attenuation 200 ns/dlv Hertzental Vertical 14 (2000 A/V) and div 1 200 ne/div Horizontal Vertical 17 (80007) =/div - 20 dB Configuration Pulsor Level 25,000 V Date Link Comments: 142'



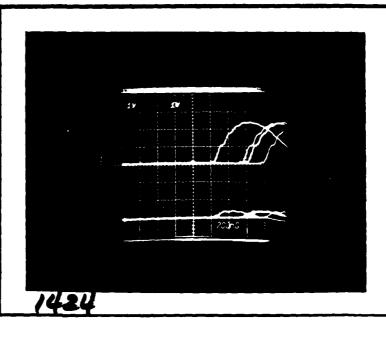
6-18-85 Date Test Point 30 - T25 - 910 - A dB Amplification 0 40 48 Attenuation 200 ne/div Horizontal Vertical 1 V (2000A/V) /div Horizontal ne/div 2 200 Vertical 1V (8000V) #/div 2 Configuration -20dB Pulser Level 25,000 V Date Link Comments:



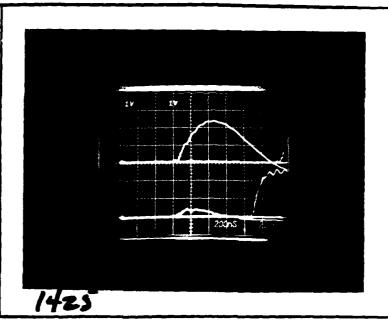
6-18-85 Dete Teat Point 30 - 725 - 1/5 - B Amplification 0 48 40 dB Attenuetion ns/div 200 Hortzontal Vertical 17 (2000 A/V) -7/div 1 200 ne/div Herizontal Vertical 1V (8000V) =/div 2 - 20 dB Configuration Pulser Level 25,000 V Dete Link Comments:



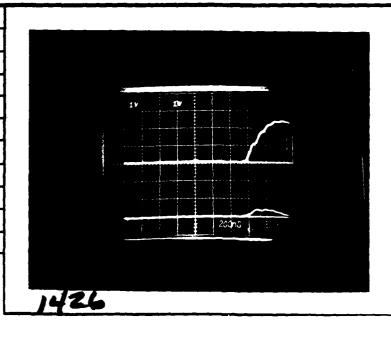
6-18-85 Test Point 30 - T25 - 910 - B 0 48 Amplification 40 48 Attenuetion 200 ne/dly 1 Horizontal Vertical 1V (2000AN) /div 1 ne/div 2 Horizontal 200 Vertical 1V (8000 V) 4 div 2 -20dB Configuration 25,000 V Pulser Level Date Link Comments:



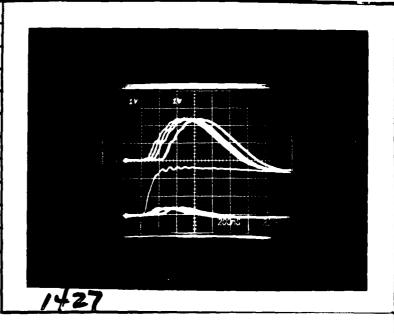
6-18-85 Dete Test Point 30-725-15-C 0 48 Amplification 40 ds Attenuation 200 ns/dlv Herizontal Vertical 14 (2000 A/V) Horizontal 200 ns/div Vertical 1V (8000V) =/div - 20 dB Configuration Pulser Level 25,000 V Date Link Comments:



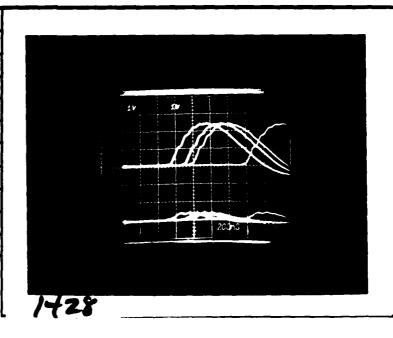
6-18-85 Date Teet Point 30 - T25 - 910 - C Amplification 48 0 Attenuation 40 45 Horizontai 200 ne/dly 1 Vertical 1 V (2000A/V) 1/div 1 200 ne/div 2 Horizontal Vertical 1√ (8000√) 4 div 2 Configuration -20dB Pulser Level 25,000 V Data Link Comments:



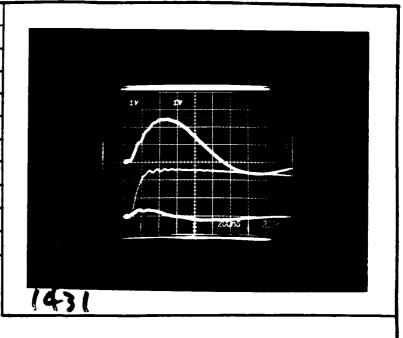
6-18-85 Dete Tool Poor 30 - 725 - 15 - D Amplification 48 40 Attenuation 48 ns/dlv 200 Hertzontal Vertical 14 (2000 A/V) -/div 1 200 ne/div Herizontal Vertical 1V (8000Y) =/div - 20 dB Configuration 25,000 V Pulser Level Date Link Comments:



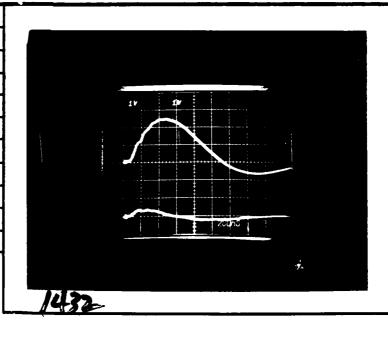
Date 6-18	
Test Point 30 .	T25-410-D
Amplification	0 48
Attenuation	40 48
Horizontal	200 ne/dlv 1
Vertical 14 (2)	000A/V)=/div 1
Horizontal	200 ne/div 2
Vertical 1V (8	000 V) -/div 2
Configuration	-20dB
Pulser Level	25,000 V
Date Link	
Comments:	-,** -



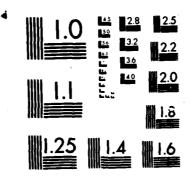
Date 648-85 Test Point 34-725-15- B AmpHication 40 dB Attenuetion ns/dlv Hertzontal 200 Vertical 17 (2000 A/V) -/div 1 200 ns/dlv 2 Horizontal Vertical 17 (80007) =/div 2 - 20 dB Configuration Pulser Level 25,000 V Data Link Comments:



6-18-85 Date Test Point 34-T25 - 910 - B Amplification 0 48 40 de Attenuetion 200 ne/dly 1 Horizontal Vertical 1 V (2000A/V) - /div 1 Horizontal 200 ns/div 2 Vertical 1V (8000 V) div 2 Configuration -20dB Pulser Level 25,000 V Date Link Comments:

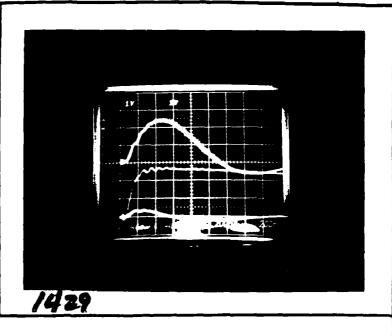


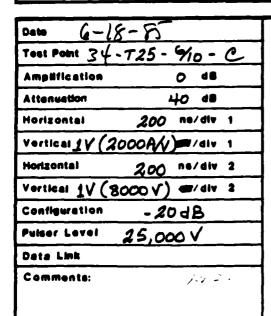
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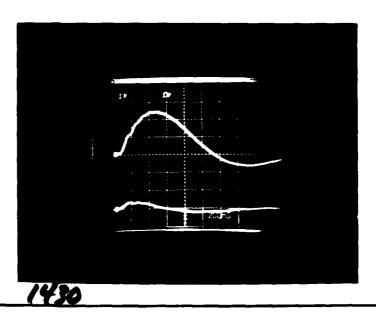


MICROCOPY RESOLUTION TEST CHART
MATIONAL BURGAL OF STANDARDS-1963-A

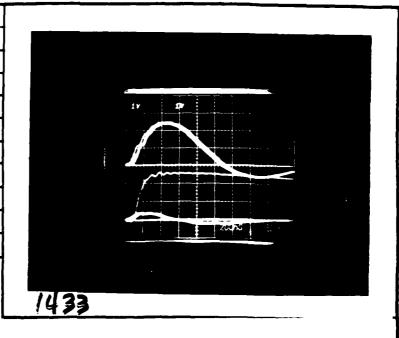
Date 6-18-85 -T25-1/5-Toot Point 34 Amputication dB 40 Attenuetton dB ns/dlv Hortzontal 200 Vertical 1V (2000 A/V) 1 200 Horizontal ns/div Vertical 1V (8000V) =/div - 20 dB Configuration 25,000 V Pulser Level Data Link 1451 Comments:



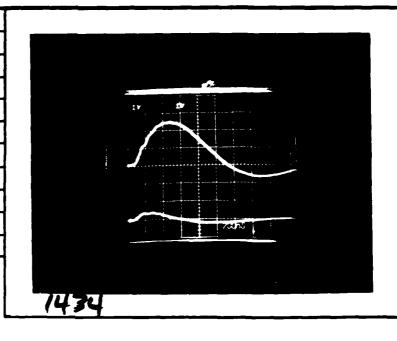


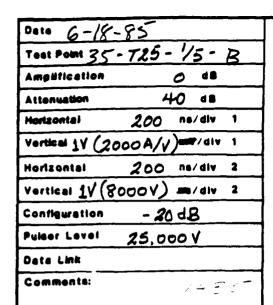


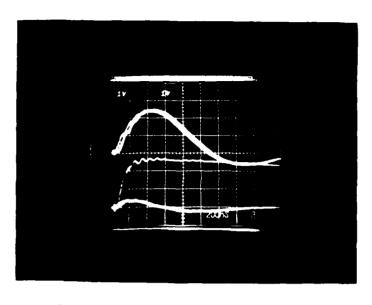
6-18-85 Date Test Point 35-725-1/5-A Amplification dB 40 Attenuetion 48 ns/div Horizontal 200 Vertical 14 (2000 A/V) 200 ns/dlv Horizontal Vertical 1V (8000V) =/div - 20 dB Configuration Pulser Level 25,000 V Data Link Commente:



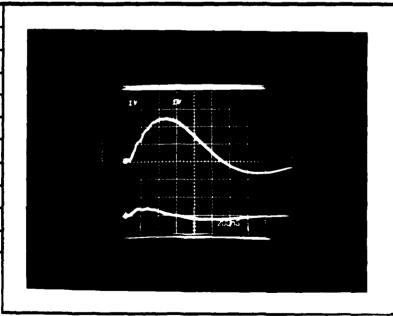
6-18-85 Dete Test Point 35-T25-910-A Amplification 0 dS Attenuetion 40 dB Horizontai 200 ne/dly 1 Vertical 1V (2000AN) /div 200 ne/div 2 Horizontai Vertical 1V (8000 V) div 2 -20dB Configuration Pulser Level 25,000 V Date Link Comments:

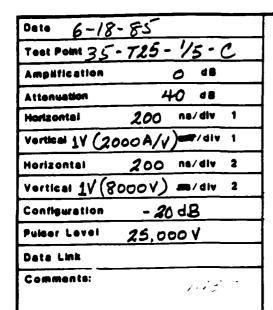


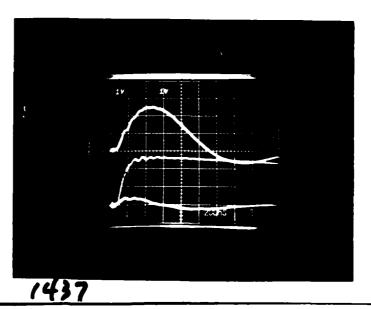




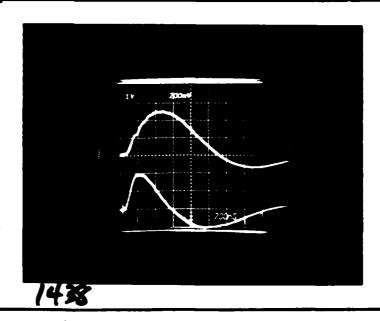
Dete 6-18-	85
Test Point 35-	T25-910-B
Amplification	0 48
Attenuation	40 48
Horizontal	200 ne/dly 1
Vertical 17 (20	000A/V)=/dlv 1
Horizontal	200 ne/div 2
Vertical 1V (8	000 V) -(div 2
Configuration	-20dB
Pulsor Lovel	25,000 V
Data Link	
Comments:	/ <u>:</u>



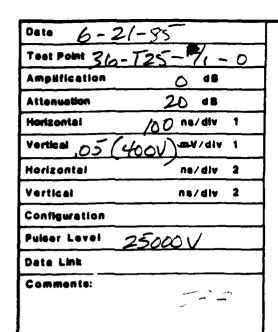


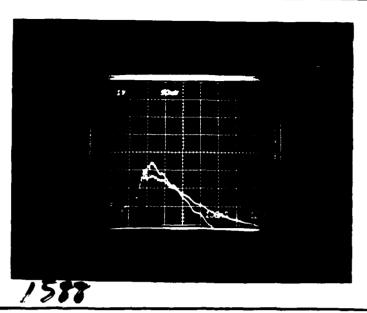


6-18-85 Date Test Point 35-T25-410-C AmpHilcation 48 Attenuation 40 48 ne/dlv 1 Horizontal 200 Vertical 1 V (2000A/V) -/div 1 Horizontal ne/div 2 Vertical 4 (8000 ) a/div 2 Configuration -20dB Pulser Level 25,000 V Deta Link Comments:



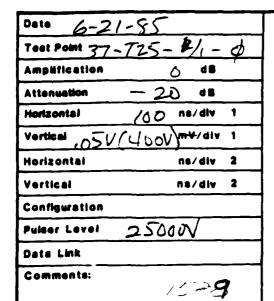
VERTICAL @ ,21(16001) per, div.

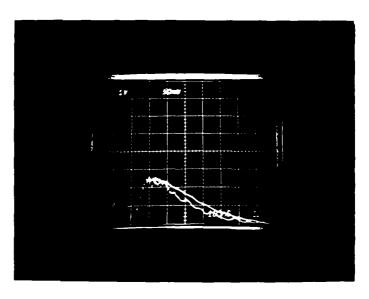




DATA + SC CROUND REF

Date		
Test Point		
Amplification	dB	
Attenuation	48	
Horizontal	ne/div	1
Vertical	mV/dlv	1
Horizontal	ne/div	2
Vertical	ne/div	2
Configuration		
Pulser Level		
Date Link		
Comments:		

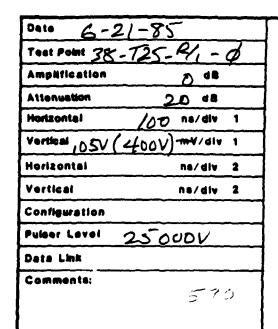




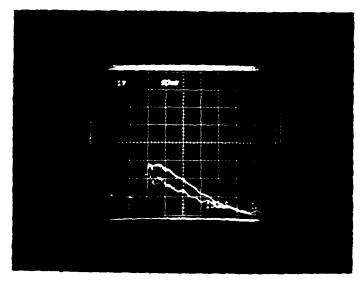
DATA + SC GROUND RET



Date		
Test Point		
Amplification	dB	
Attenuation	48	
Horizontal	ne/dlv	1
Vertical	mV/dlv	1
Horizontal	ne/div	2
Vertical	ns/dlv	2
Configuration		
Pulser Level		
Date Link		
Comments:		



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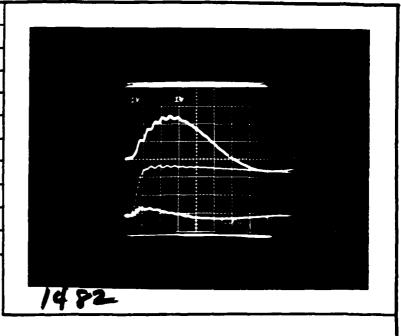


DATA + SC GND REF



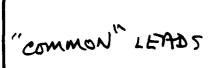
Dete		
Test Point		
Amplification	dB	
Attenuetion	48	
Horizontal	ne/div	1
Vertical	mV/dlv	1
Horizontal	ns/div	2
Vertical	na/div	2
Configuration		······································
Pulser Level		
Data Link		
Comments:		

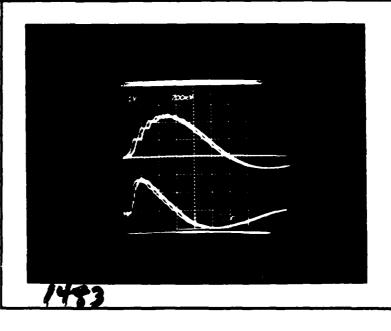
Date 6-19-85 Test Point 39-125-15-0 Amplification Attenuation Horizontal ns/div 200 2000 4/1 Horizontal ns/dlv Vertical / AB/div -20dB Configuration 25,000 V Pulser Level Data Link Comments:

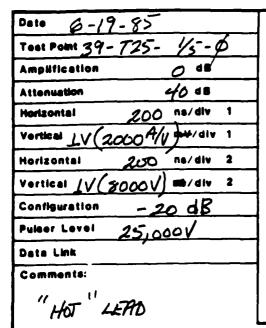


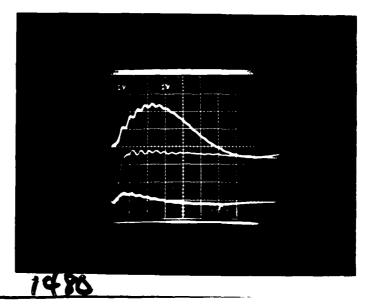
"COMMON" LEAD

6-19-85 Test Point 39-725-410-0 Amplification 45 Attenuation ne/dlv Horizontal 200 Vertical /L W/dly 1 Horizontal ne/div 2 A/dly 2 Vertical . 2V (1600V Configuration -20 dB 25,000 V Pulser Level Date Link Commente:

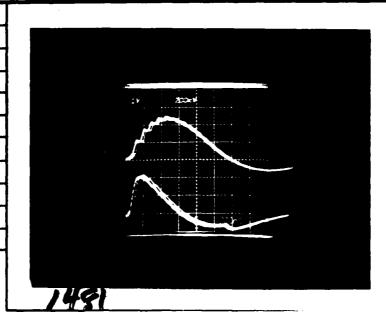


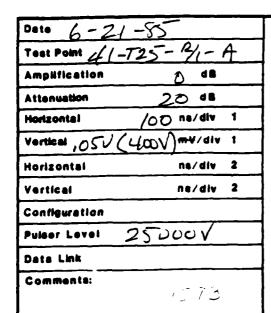


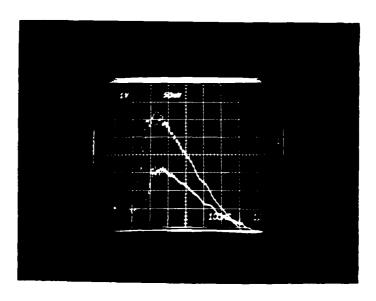




6-19-85 Date Test Point 39- 725 dB Amplification Attenuation Horizontal Vertical / 2000 N/mV/dlv Horizontal 1600 V ) = / div 2 Vertical -20 dR Configuration Pulser Level 25,000V Date Link Comments: "HOT "LEAD



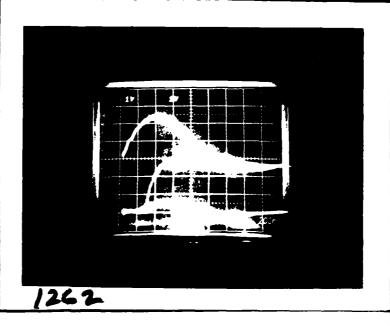


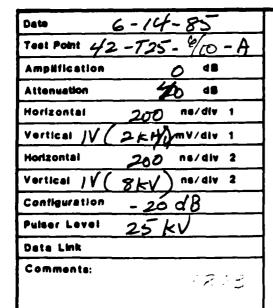


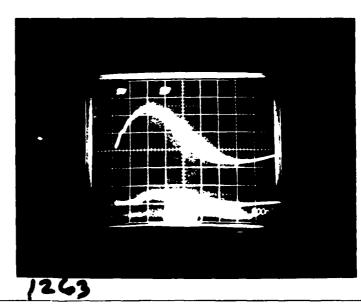
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Date	
Test Point	
Amplification	48
Attenuation	48
Horizontal	ne/dlv 1
Vertical	mV/dlv 1
Horizontal	ns/div 2
Vertical	ns/dlv 2
Configuration	
Pulser Level	
Data Link	
Comments:	

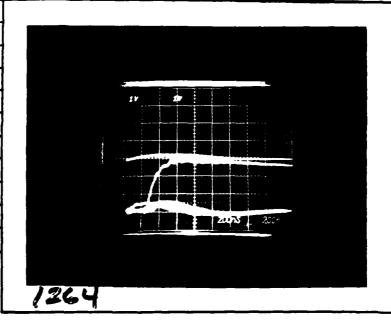
Dete Test Point 42-725-1 Ampulication Attenuation d B ns/dlv Hortzontal Vertical / Horizontal ns/dly 2 Vertical / as/div dB Configuration - 20 Pulser Level Date Link Comments: 1262



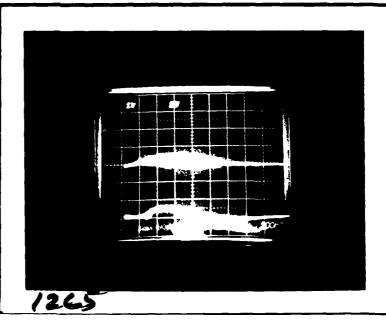




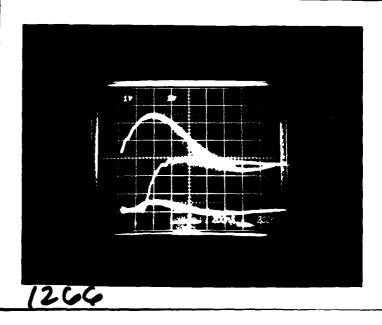
Dete 42-T25-15-B Test Point Amplification d B 48 Attenuation 40 ns/div Horizontal 200 Vertical /V W/dlv ZOUUA ne/div Horizontal 200 ae/div Vertical -20 dB Configuration Pulser Level Deta Link Comments: 1760



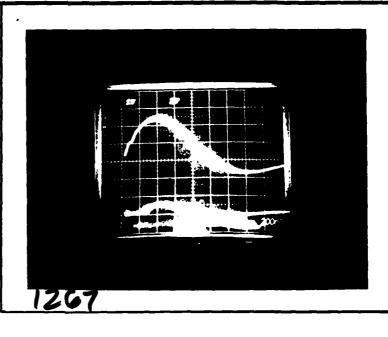
6-14-85 Date Test Point 42-725- 6/10 - B Amplification dB Attenuetion dB Horizontal ne/dlv 1 200 2000 VV Vertical /V mV/dlv 1 Horizontal ne/div 2 200 Vertical /V me/div 2 Configuration Pulser Level Date Link Comments:



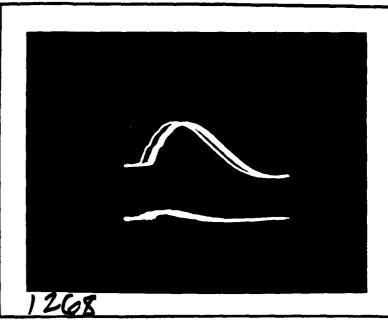
6-14-85 Date Test Point 42 -T25-15- C Amplification dS Attenuation 40 d B ns/dlv Hortzontal 200 Vertical /V mV/dlv 1 2000 AV Horizontal 200 ne/div 2 Vertical /V(8kV ne/div 2 -20dB Configuration Pulser Level 25 KV Data Link Comments: 1766



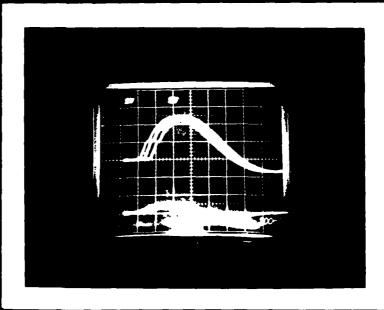
Date 6-14-85 Test Point 42-725-910-C d8 Amplification Attenuation 48 40 ns/dlv 1 Horizontai 200 Vertical JV 2000A/V)W/div 1 Horizontai ne/div 2 Vertical /V me/div 2 (8000V) - 20 dB Configuration Pulser Level Date Link Comments: 1252



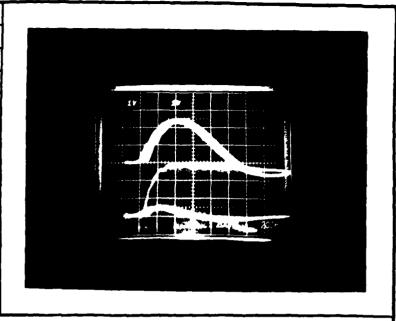
6-14-85 Date Test Point 42-T25-15- D Amplification dB 0 40 d B Attenuation ns/dlv Horizontal Vertical /V mV/dlv 1 ns/div 2 Horizontal me/dly Vertical /V (8000V) -20 dB Configuration Pulser Level Data Link Comments: 1163



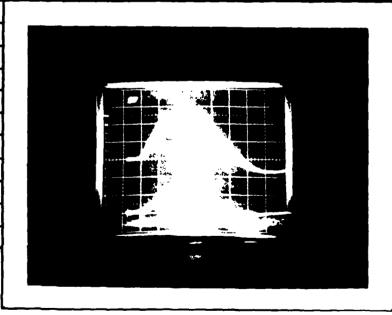
6-14-85 Date Test Point 42-T25-6/0-D Amplification 48 Attenuetion dB 40 Horizontal ns/dlv 1 200 2000AV mV/div 1 Vertical /// Horizontal ns/div 2 200 Vertical /V (8000V) me/div 2 Configuration -20 dB Pulser Level Date Link Comments:



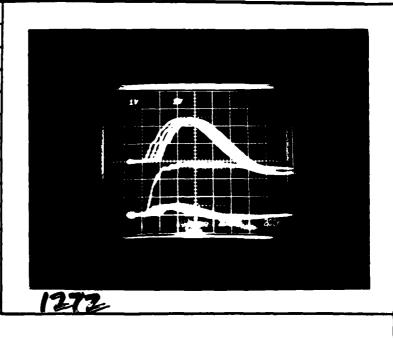
6-14-85 Dete Test Point 42-725-15-E d B Amplification Attenuetion 240 d 8 ns/dlv Hortzontal Vertical // (2000 A) Horizontal ne/div Vertical /V ne/div 8000V Configuration Pulser Level Dete Link Comments:



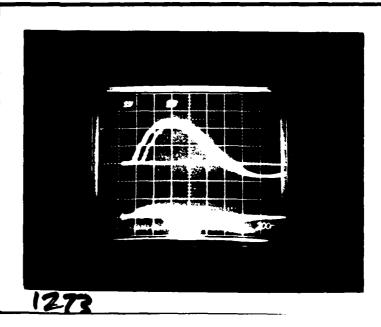
6-14-85 Dete Test Point 42-T25-6/10-E 48 Amplification Attenuation 40 48 Horizontal 200 ne/dlv 1 Vertical /V mV/div 1 Horizontal ns/div 2 Vertical IV (8000 V 40/ div 2 Configuration -20 dB Pulser Level Date Link Comments:



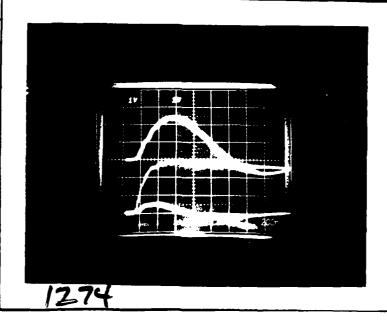
6-14-85 Dete Test Point 45 - T25 - 15 - A Amplification dB 40 dB Attenuetion 200 ne/div Horizontai Vertical // Horizontal ns/dly (8000V)-15/div Vertical // - 20 dB Configuration Pulser Level 25 KV Data Link Comments: 272



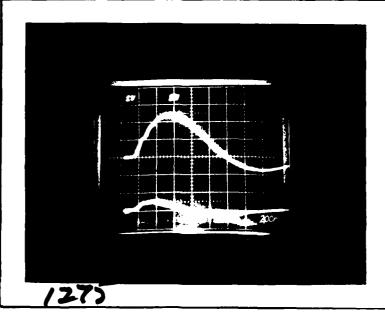
6-14-85 Teet Point 45-725-9/0- A 48 AmpHilcation Attenuetion 48 40 200 ne/dly 1 Horizontal 2000 A/V W/div 1 Vertical /L Horizontal ns/div 2 Vertical IV (8000V me/div 2 -20 dB Configuration Pulser Level Date Link Comments: 157E



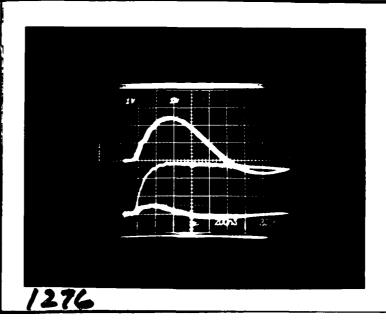
6-14-85 Date Test Point 45-725-15- B dS Amplification 40 Attenuation d 8 ns/div Horizontal Vertical #Y/div 1 200 ns/div Horizontal Vertical /V (8000V) ne/dly -20 dB Configuration Pulser Level Data Link Comments:

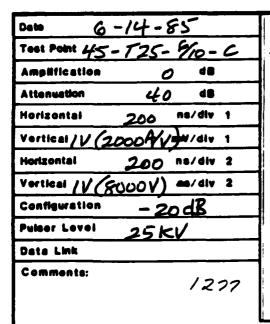


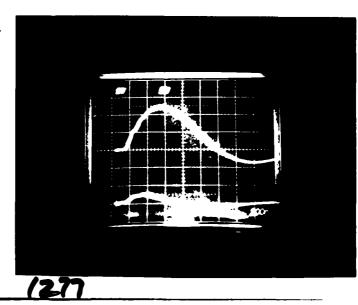
Date (	5-14-85
Test Point 45-	T25-400 B
Amplification	0 48
Attenuation	40 00
Horizontai	200 ne/dlv 1
Vertical IV (20	000 A/V marialy 1
Horizontal	2000 ne/div 2
Vertical IV (80	200 V ) 46/4IV 2
Configuration	-20dB
Pulser Level	25KV
Data Link	
Comments:	1 7 7 7



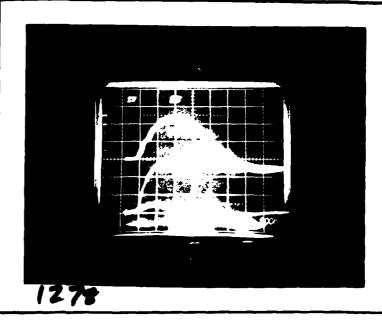
Date 6	-14-85
Test Point 45	-T25-1/5-C
Amplification	0 48
Attenuation	40 00
Hertzontal	200 ne/div 1
Vertical IV (20	OOAN MV/div 1
Horizontal	200 ns/dlv 2
Vertical /V/8	2000V) merdiv 2
Configuration	-20dB
Pulser Level	25KV
Data Link	
Comments:	1276
	· ·



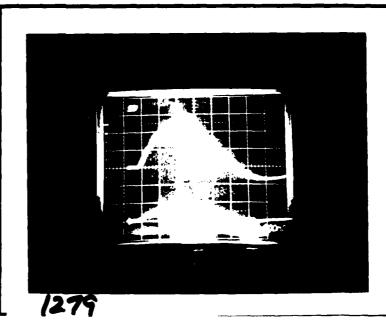




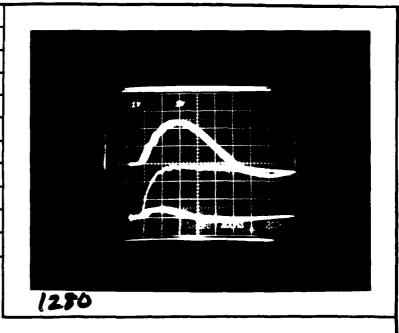
Date	6-14-85
Test Point 45	-T25-15-D
Amplification	0 48
Attenuation	40 08
Horizontal	200 ns/div 1
Vertical /V (2)	000 A/V ) mV/dlv 1
Horizontal	200 na/dlv 2
Vertical IV (8	ODOV) ne/div 2
Configuration	-20 dB
Pulser Level	25 KV
Data Link	
Comments:	·



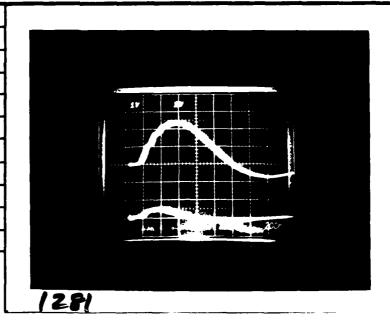
Date 6	-14-85
	-725-6/10-D
Amplification	0 48
Attenuation	40 48
Horizontal	200 ne/div 1
Vertical /V(2	WOOAN Walv 1
Horizontal	200 ne/div 2
Vertical JV (8	
Configuration	-20 dB
Pulser Level	25 KV
Date Link	
Comments:	1.77



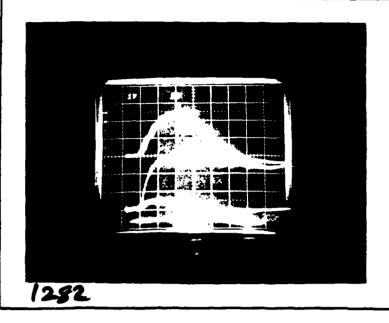
6-14-85 Dete Test Point 45-725-15-E Amplification Attenuation 46 ns/dlv Hortzontal Vertical // ns/div Horizontai 2 Vertical /V (8000 V m/div -20dB Configuration Pulser Level Data Link Comments:

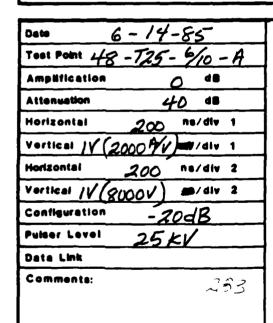


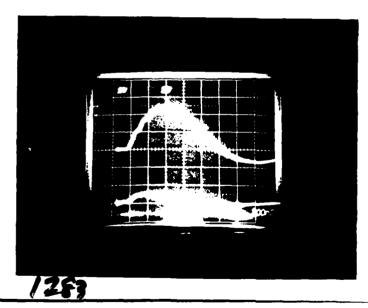
6-14-85 Date Test Point 45-725- 90-E đĐ Amplification dB Attenuation Horizontal ne/div 200 2000 M Vertical /L T/div 1 Horizontal ne/div 2 ne/div 2 Vertical / V (8000 V 20 dB Configuration Pulser Level Data Link Comments:



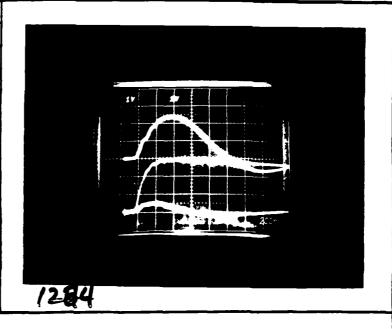
6-14-85 Dete Test Point 48-725- 15- A Amplification Attenuation 40 d B ns/dlv Horizontai 200 Vertical // 2000 AN #/dlv 1 Horizontal ne/div Vertical /V(8000V) ≠/div 2 Configuration -20 dB Pulser Level 25 KV Data Link Comments: 232



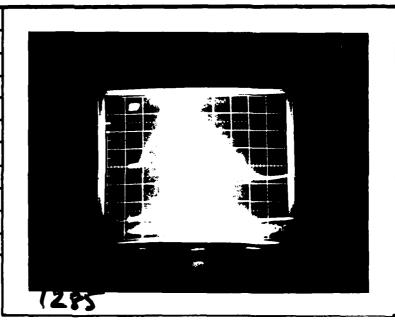




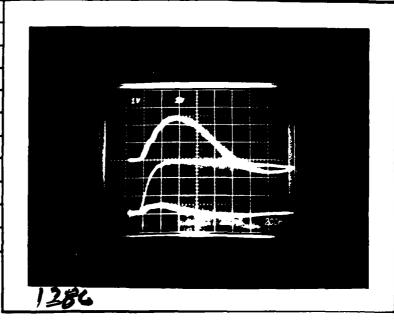
Date 6	-14-85
Test Point 48	-725-15-B
Amplification	0 48
Attenuation	40 48
Hortzontal	200 ns/div 1
Vertical IV (20	00 AV) -/div 1
Horizontal	200 ne/div 2
Vertical /V(8	000 V) -/div 2
Configuration	-20dB
Pulser Level	25KV
Data Link	
Comments:	7



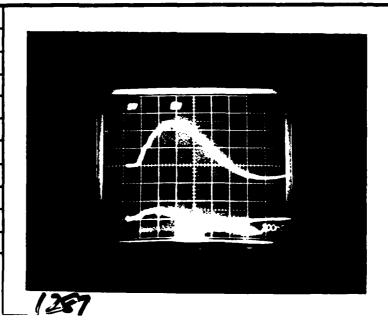
Date 6	-14-85
	-T25-6/10-B
Amplification	0 48
Attenuation	40 48
Horizontal	200 ne/div 1
Vertical /V(2	000 AN -/div 1
Horizontal	200 ne/div 2
Vertical /V/8	1000V) =/dlv 2
Configuration	-20dB
Pulser Level	25KV
Data Link	
Comments:	12:45



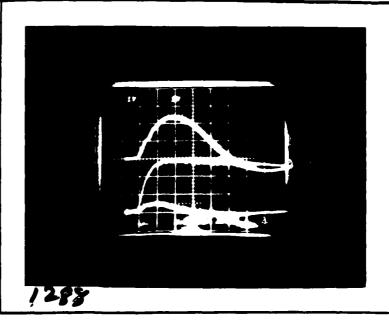
6-14-85 Date Test Point 48-725-15- C Amplification dB d B Attenuetion 200 ns/dlv Horizontal Vertical / / ns/div Horizontal ≠/ div Vertical // ROWV -20dB Configuration Pulser Level Date Link Comments:



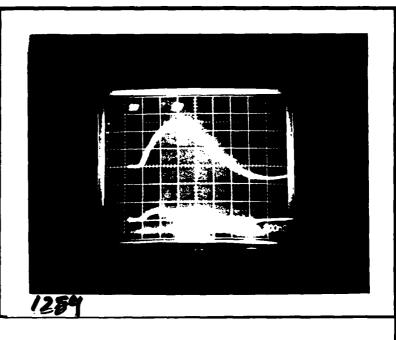
Date Test Point 48 - 725 - 6/10 - C Amplification d8 Attenuation ns/dlv 1 Horizontal 2000 4/1 Vertical / m/dly 1 Horizontal 200 ne/div 2 Vertical /V (8000 V d/dlv 2 - 20 dB Configuration Pulser Level Date Link Comments:



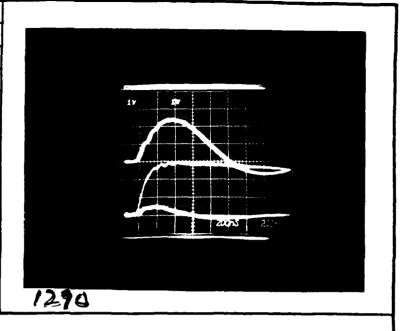
Date Test Point 48-725-Amplification đ 6 Attenuation ns/dlv Horizontal Vertical /V Horizontal 200 ns/div 2 ≠ div Vertical /V(8000V - 20 dB Configuration Pulser Level 25KV Data Link Comments: 12:4



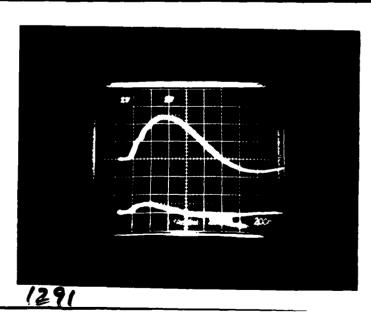
6-14-85 Date Test Point 48-725-40- D 48 Amplification 40 Attenuetion 48 ne/dlv 1 Horizontal Vertical /1/ Horizontal ns/div 2 Vertical // m/dlv 2 -20 dB Configuration Pulser Level Data Link Comments: 12:1

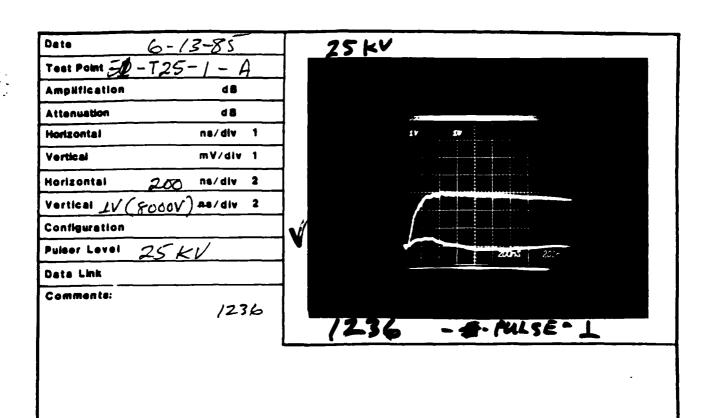


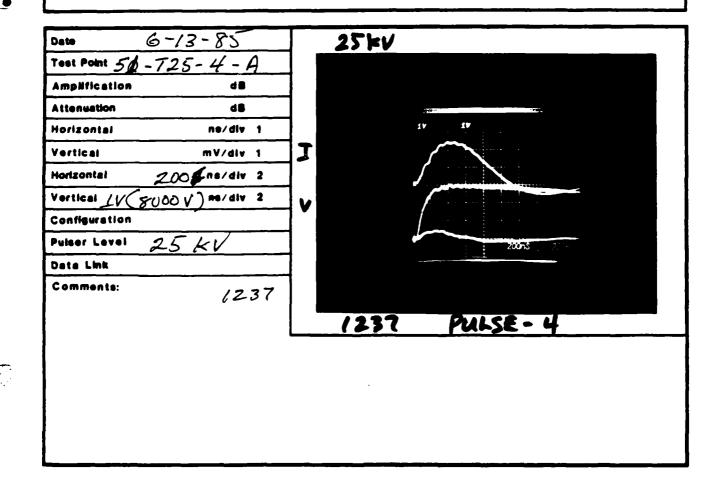
Date 6-14-85 Test Point 48-725-1/5-E Amplification 45 Attenuation d 8 ns/dlv Horizontal Vertical IV (2000 A) Horizontal ne/div Vertical // (8000V)=/div 2 -20dB Configuration 25KV Pulser Level Data Link Comments: 277



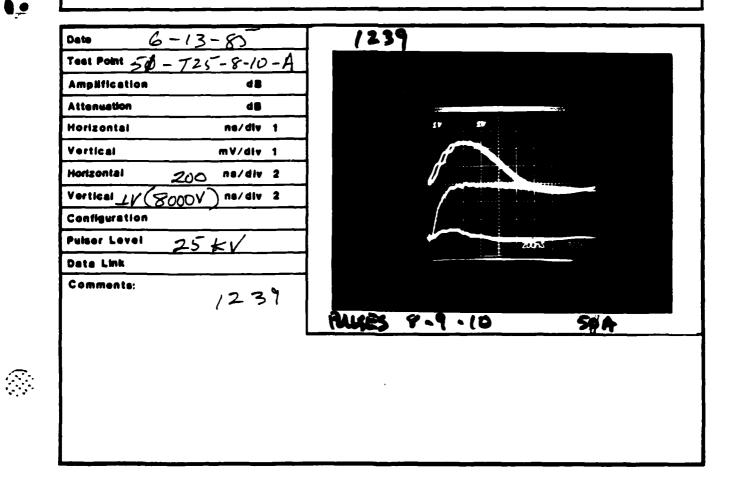
Date 6-1	14-85
Test Point 48- 72	5-410-E
Amplification	0 48
Attenuation	40 4
Horizontal 20	o ne/div 1
Vertical /V (2000	A/ div 1
Horizontal 20	ne/div 2
Vertical IV (8000)	
Configuration _	20dB
Pulser Level 25	SEV
Deta Link	
Comments:	29/

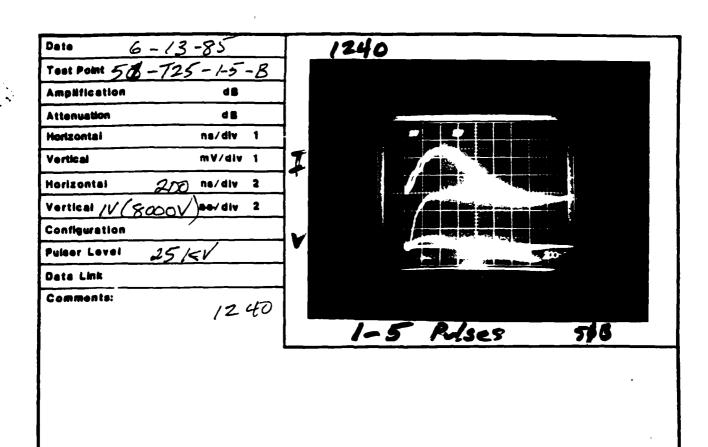


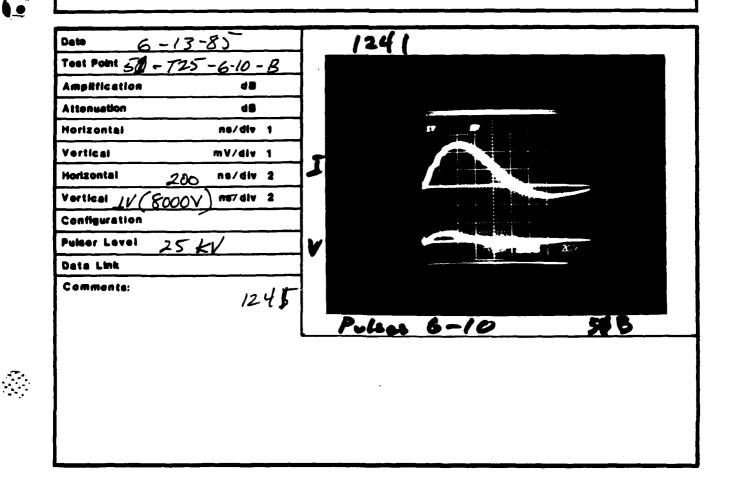




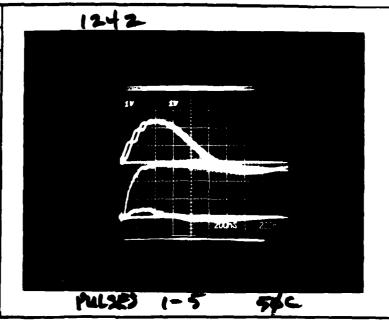
Date @	5-13-85		25 KU /238
Test Point 50-	T25-6-A		
Amplification	48		
Attenuation	48		
Horizontal	ns/div 1		17
Vertical	mV/div 1	I	
Horizontal 2	.00 ns/div 2		
Vertical IV(80	WOV) mordin 2		
Configuration		$\Box$ .	
Pulser Level 2	5KV	$\Box^{\mathbf{v}}$	200cm
Data Link			
Comments:	/		
	1238	5   1	1238 - PULSE - G

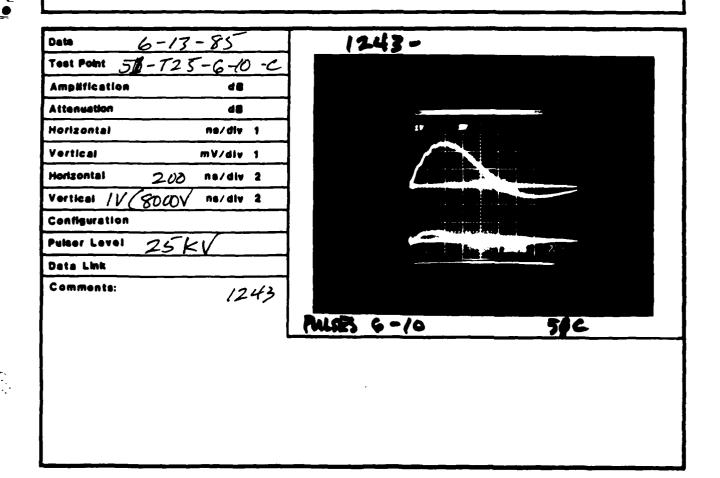




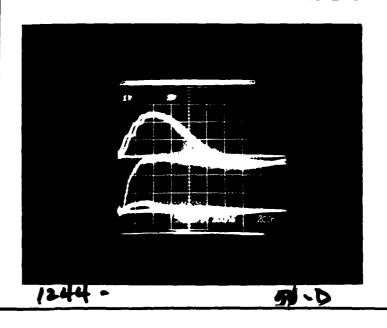


Date	6-13-85	
Test Point 5	-T25-1-5	c
Amplification	di	
Attenuation	d(	)
Hortzontal	ns/dh	, 1
Vertical	mV/d	v 1
Horizontal	200 ne/di	, 2
Vertical (VC	8000V) Herdi	, 2
Configuration		
Pulser Level	25KV	
Date Link		
Comments:	/2	242



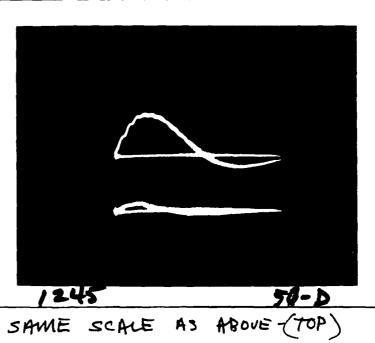


Date 6	-/3-85
Toot Point 5%	-725-1-5-D
Amplification	48
Attenuation	đB
Herizontel	ns/div 1
Vertical	mV/dlv 1
Horizontal	200 na/div 2
Vertical LV	8000Y) me/div 2
Configuration	
Pulser Level	25 KV
Date Link	
Comments:	
	1244

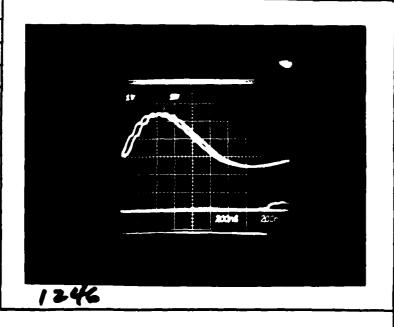


Date 6-1	3-85
Test Point 51-725	
Amplification	dB
Attenuation	d\$
Horizontal	ne/dly 1
Vertical	mV/dlv 1
Horizontal 200	ne/div 2
Vertical LV (8000)	/ )ne/div 2
Configuration	
Pulser Level 451	KV
Deta Link	
Comments:	

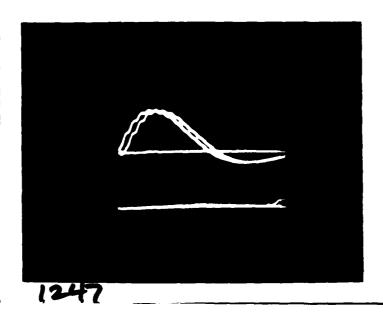
... ...



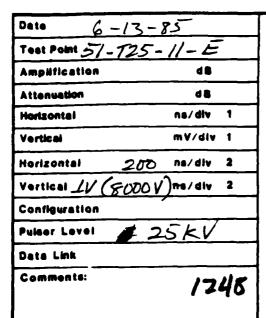
Dete 6-13-85 Test Point 50 - T25 - 1-5 -E dB Amplification Attenuation 20 dB 200 ns/div Horizontal mV/dlv 1 **Vertical** 11/80004) 200 Horizontal ns/dlv 2 8000V 2 Vertical 1/ ne/div Configuration 25 KV Pulser Level Date Link Comments: 743

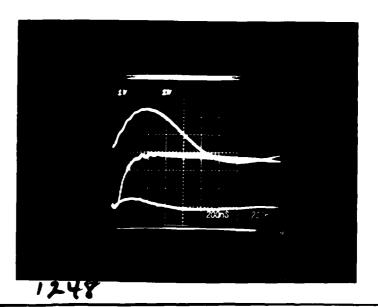


6-13-85 Date 51-T25-6-10-E Test Point Amplification 0 48 Attenuation 20 48 Horizontal ne/dlv 1 200 Vertical mV/dlv 1 Horizontal ne/div 2 200 Vertical // ne/div Configuration Pulser Level Date Link Comments:

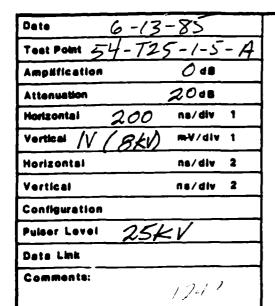


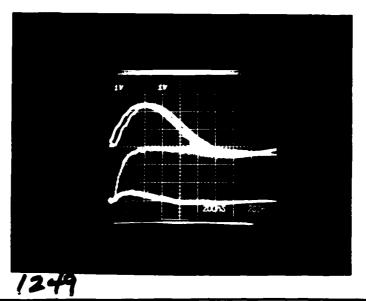
NO VOLTAGE TRIGGER



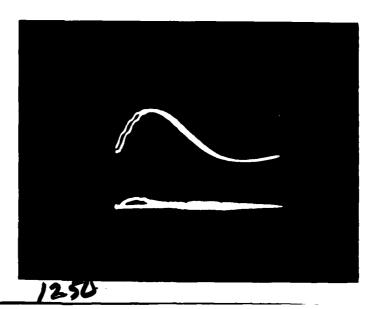


Dete		
Test Point		
Amplification	dB	
Attenuation	dB	
Horizontal	ne/dlv	1
Vertical	mV/dlv	1
Horizontal	ne/div	2
Vertical	ne/dly	2
Configuration		
Pulser Level		
Data Link		
Comments:		



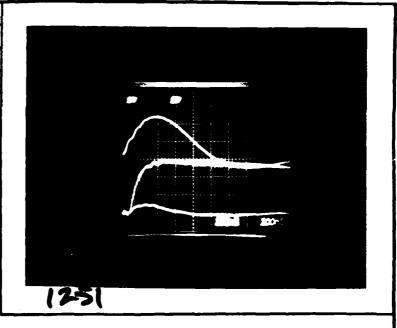


6-13-85 Date -T25-6-8-A Test Point 048 Amplification Attenuetton 20 48 200 ne/dlv 1 Horizontal (8K1) WY/div 1 Vertical Horizontal ns/div 2 Vertical ne/dlv 2 Configuration Pulser Level 25KV Data Link Comments:



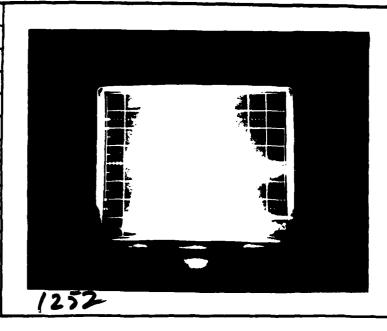
PICTURES - 6-8

Dete	6-13-85
	1-T25-11- A
Amplification	46
Attenuation	d <b>6</b>
Horizontal	ne/div 1
Vertical	mV/div 1
Horizontal	200 na/div 2
Vertical IV (	8000V) #8/dlv 2
Configuration	
Pulser Level	25 KV
Deta Link	
Comments:	1251

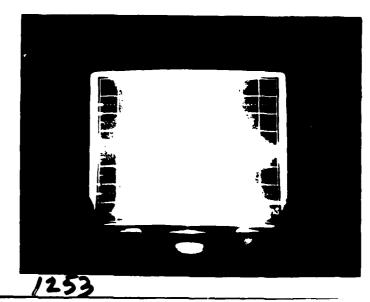


Date		
Test Point		
Amplification	dB	
Attenuetion	48	
Horizontal	ns/div	1
Vertical	mV/dlv	1
Horizontal	ne/dlv	2
Vertical	ne/dlv	2
Configuration		
Pulser Level		
Data Link		
Comments:		

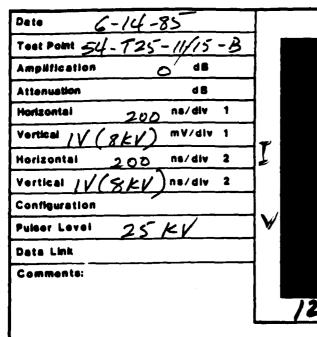
6-13-85 Date Test Point 54-125-0 48 AmpHilcation Attenuation 20 48 ns/dlv Herizontal 200 mt7dlv 1 8KV Vertical Horizontal 200 ns/dlv 2 Vertical / // 18000V -ns/div 2 Configuration Pulser Level Deta Link Comments: 1252

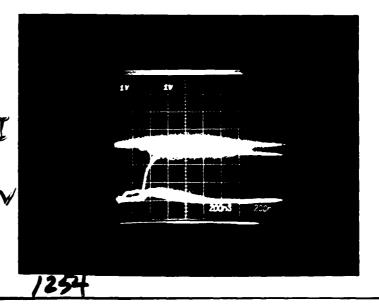


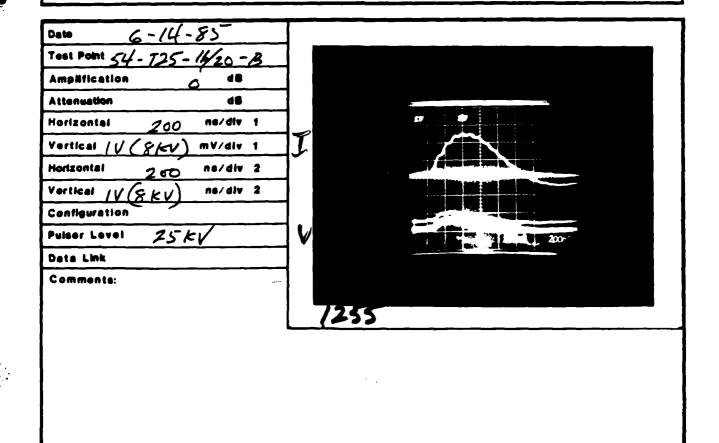
6-13-85 Teet Point 54-725- 6/10 048 Amplification 20 48 Attenuation Horizontal 200 ns/dlv 1 Vertical / mW/dlv Horizontal ne/div 2 200 Vertical LV (8000V nerdly 2 Configuration Pulser Level 25 KV Data Link 1.13 Comments:



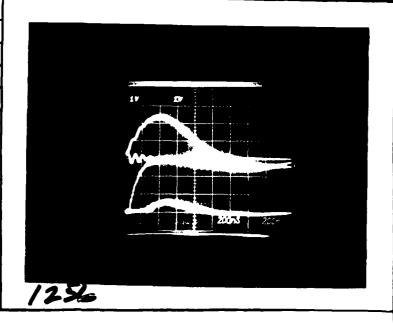
DEVICE PEAK VOLTAGE (4KV).



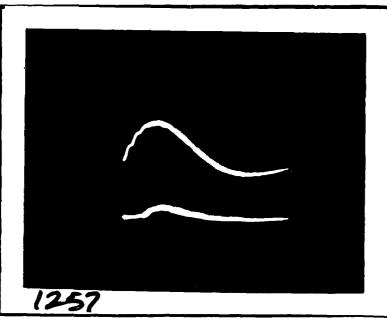




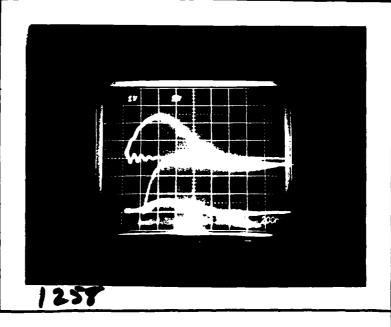
Date **Test Point** Amplification O 48 20 de Attenuation Horizontal ns/dlv 200 mV/dlv 1 Vertical *800*0V Horizontal ns/div Vertical // 80000 ns/div Configuration 25 KV Pulser Level Data Link Comments:



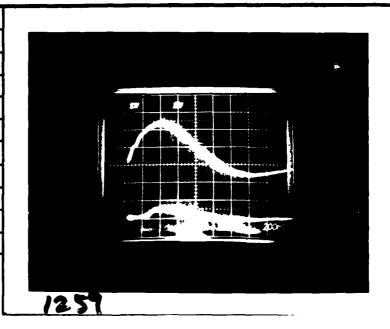
6-14 85 Date Test Point 54-T25-6/10 -C 0 48 Amplification 20 48 Attenuation Horizontal 200 ne/dlv 1 8KY Vertical /6/ mV/div 1 Horizontal ns/dlv 2 200 Vertical 1V ne/dlv 2 8000 V Configuration Pulser Level 25 KV Data Link Comments: 7

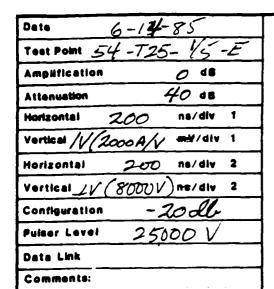


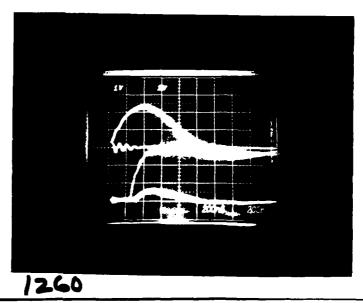
Dete Test Point 0 48 Amputication d B Attenuation 200 ns/dlv Horizontal Vertical /V/2000A/ <del>m∀</del>/div 200 Horizontal ns/dly Vertical /V (8KY) ns/div 2 -20db Configuration Pulser Level Deta Link Comments: 1258



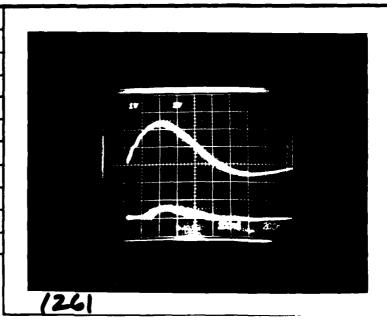
6-14-85 Date Test Point 54 - 725 - 9/10 - D 0 48 AmpHilcation 40 48 Attenuation 200 ns/dlv 1 Horizontal 2000 A/V Vertical // mV/dlv 1 Horizontal ns/div 2 200 ns/dlv 2 BKV Vertical /V -20db Configuration Pulser Level Data Link Comments:



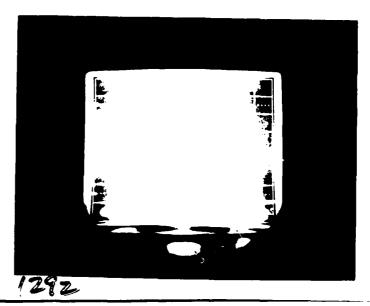




Date	6-134	-85	
Test Point 5	4-T29	4/10.	-E
Amplification		048	
Attenuation		40 de	
Horizontal	200	ne/dlv	1
Vertical /V/	2000AV	mw/div	1
Hortzontal	200	ne/dly	2
Vertical //	8000V	) -ne/dlv	2
Configuration		Rode	
Pulser Level	25		
Date Link			
Comments:			
			1

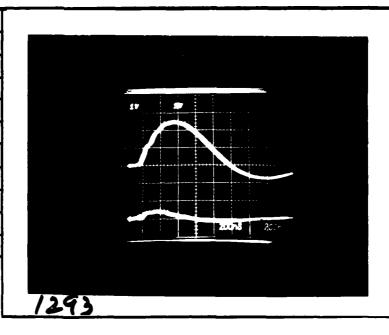


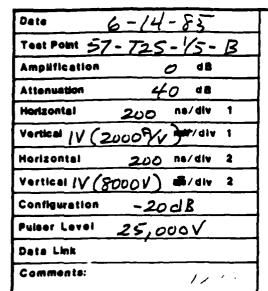
6-14-85 Date Test Point 57- 725 - 15 - A Amplification 48 40 Attenuation d B ns/dlv Horizontal 200 vertical /V (2000A/V ns/div Horizontal Vertical /V(8000V) A/div -20 dB Configuration Pulser Level Data Link Comments:

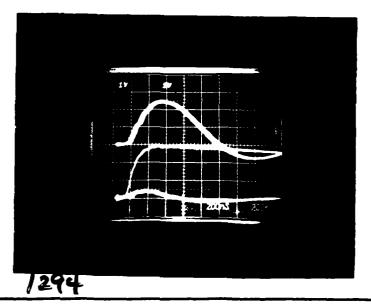


DEVICE CLAMPED AT 26 3000 V

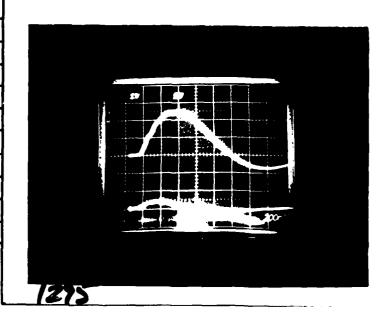
6-14-85 Test Point 57 - 725 - 1/5 - A Amplification dB Attenuetion dS 200 ne/div 1 Horizontal Vertical /V (2000 A/V Mdiv 1 Horizontal ne/div 2 mo/dlv 2 Vertical IV (SUDOV Configuration -20dR Pulser Level Date Link Comments:



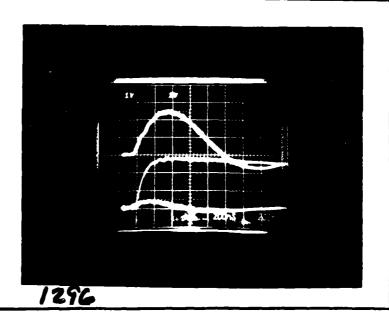




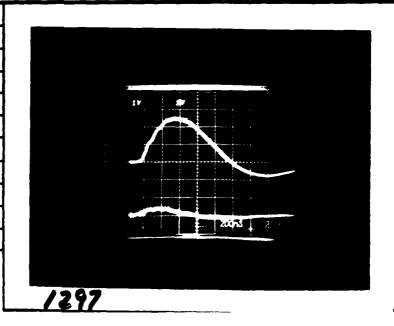
Date 6	-14-85
Test Point 57-	T25-410-B
Amplification	0 48
Attenuation	40 00
Horizontal	200 ne/dlv 1
Vertical IV (20	00 A/V= 1 div 1
Horizontal	200 ne/div 2
Vertical / Y (80	000V) - div 2
Configuration	-20dB
Pulser Level	25 KV
Deta Link	
Comments:	1.11



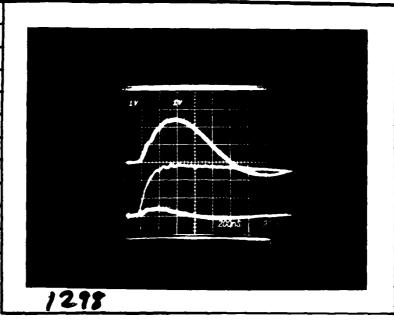
6-14-85 Date Tool Point 57 - 725 - 1/5 - C Amplification 48 0 40 48 Attenuetion 200 Horizontal ns/div Vertical 14 (2000 A/V) -7 div 1 200 ne/div 2 Horizontal Vertical 1V (8000V) =/div 2 - 20 dB Configuration Pulser Level 25,000 V Date Link Comments:



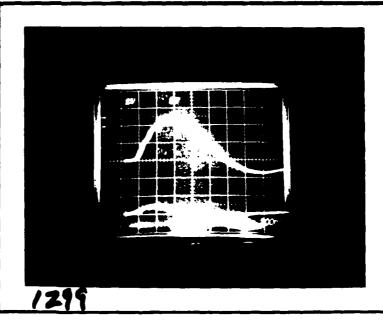
Dete	6-14-85
Test Point 57	T25-910-C
Amplification	0 48
Attenuation	40 48
Horizontal	200 ne/div 1
Vertical 1V (2	000A/V)=/414 1
Horizontal	200 ne/div 2
Vertical 1V (8	000 V) -/dlv 2
Configuration	-20dB
Pulser Level	25,000 V
Data Link	
Comments:	12.27

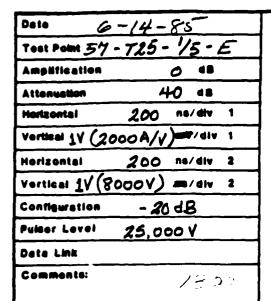


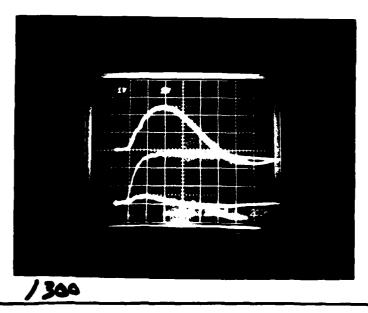
6-14-85 Dete Test Point 57 - 725 - 15 - D 0 Amplification 40 dE Attenuation ns/dlv 200 Herizontal Vertical 14 (2000 A/V) - div 1 200 ne/div Horizontal Vertical 14 (80004) =/div 2 - 20 dB Configuration 25,000 V Pulser Level Date Link Comments: 213



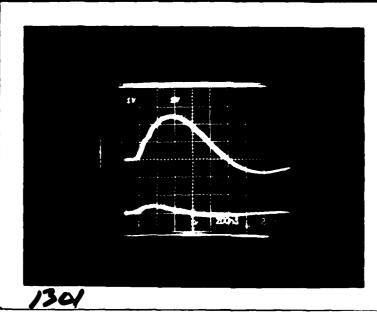
Date 6	-14-85
Tool Point 57	T25- 410 - D
Amplification	0 48
Attenuetion	40 dB
Horizontal	200 ne/dlv 1
Vertical JV (2	000A/V)=/414 1
Horizontal	200 ne/div 2
Vertical 1V (8	000 V) 4741V 2
Configuration	-20dB
Pulser Level	25,000 V
Data Link	
Comments:	211

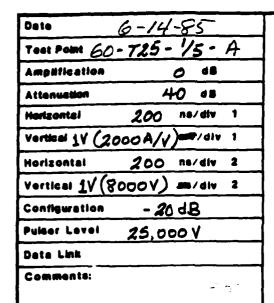


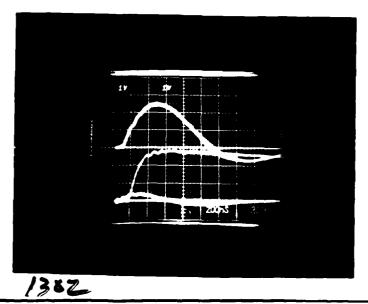




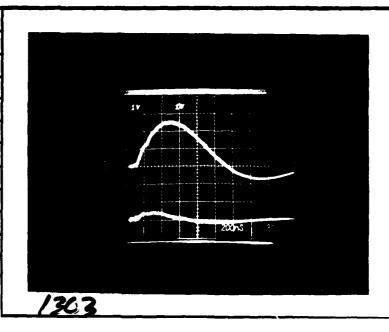
Date (	0-14-85
	-T25-410-E
Amplification	0 48
Attenuation	40 dB
Horizontal	200 ne/dly 1
Vertical 1V (2	1000AN)=/414 1
Hortzontal	200 ns/div 2
Vertical 1V (	8000 V) #/dlv 2
Configuration	-20dB
Pulsor Level	25,000 √
Data Link	
Comments:	1301

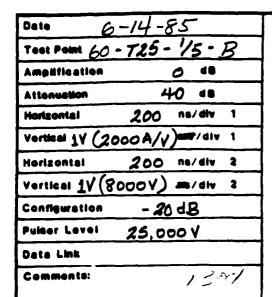


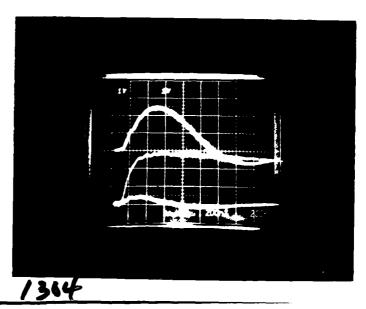




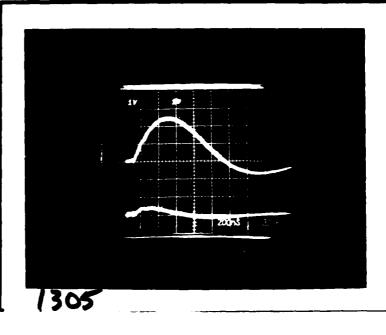
Date	6-14-85
Test Point 60	T25- 410-A
Amplification	0 48
Attenuetten	40 dB
Horizontal	200 ne/dlv 1
Vertical 1V (2	000AN)=/div 1
Horizontal	200 ns/div 2
Vertical 1V (8	000 V) -/div 2
Configuration	-20dB
Pulser Level	25,000 V
Data Link	
Comments:	2.1-
	303

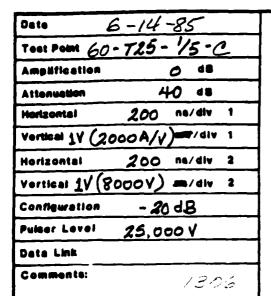


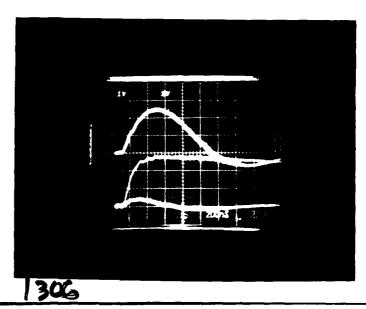




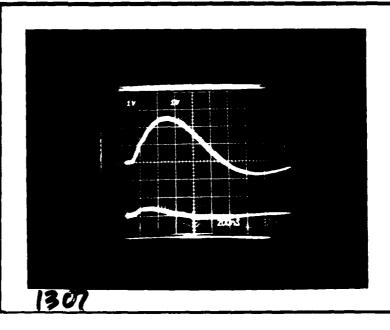
Dete 6	-14-85
Test Point 60 -	T25-910-B
Amplification	0 48
Attenuetion	40 48
Horizontal	200 ne/dly 1
Vertical 17 (20	000AN)=1/div 1
Horizontal	200 ne/div 2
Vertical 1V (8	000 V) =/div 2
Configuration	-20dB
Pulser Level	25,000 V
Data Link	
Comments:	1305
	, <u>, , , , , , , , , , , , , , , , , , </u>



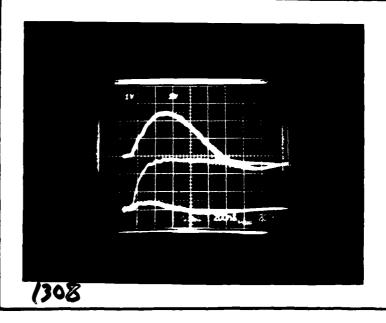




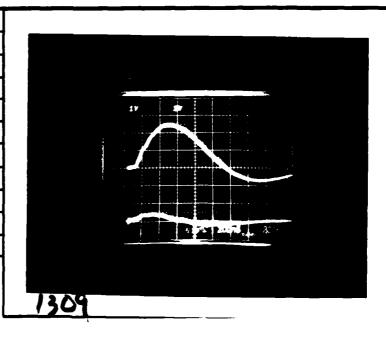
Date 6	-14-85
Test Point 60-	T25-910-C
Amplification	0 48
Attenuation	40 48
Horizontal	200 ne/dly 1
Vertical 1 V (20	000AN)=/div 1
Horizontal	200 ne/div 2
Vertical 1V (8	000 V) -/ div 2
Configuration	-20dB
Pulser Level	25,000 V
Date Link	
Comments:	- 37



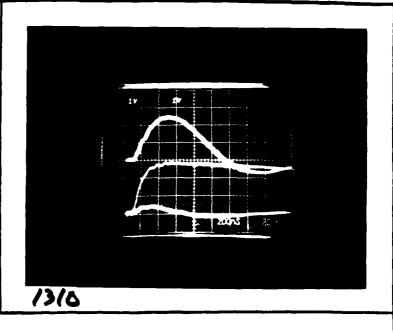
6-14-85 Dete Tool Point 60-725-15-D Amplification 40 46 Attenuetten ns/div Hertzontal 200 Vertical 17 (2000 A/V) /div 1 Horizontai 200 ne/div 2 Vertical 1V (8000V) -/div 2 - 20 dB Configuration Pulser Level 25,000 V Data Link Comments: 3:3



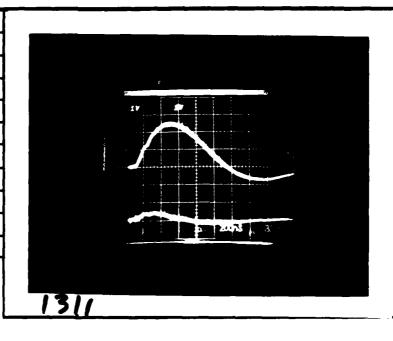
6+14-85 Dete Test Point 60 - T25 - 910 - D 0 48 Amplification Attenuetion 40 48 200 ne/div 1 Horizontal Vertical IV (2000AN) 1/div 1 200 ne/div 2 Horizontal Vertical IV (8000 V) #/div 2 -20dB Configuration Pulser Level 25,000 √ Date Link Comments: 1307



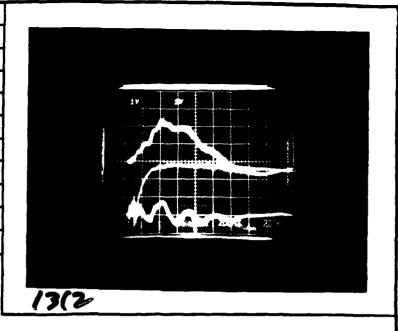
6-14-85 Dete Test Point 60 - 725 - 1/5 - E Amplification 40 d B Attenuetton ns/dlv 200 Hertzentei Vertical 14 (2000 A/V) - div 1 200 ns/dlv 2 Horizontal Vertical 1V (8000V) =/div 2 - 20 dB Configuration Pulser Level 25,000 V Date Link 1310 Comments:



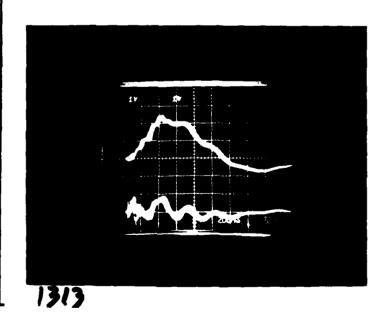
6-14-85 Test Point 60 - T25 - 910 - E Amplification 48 Attenuetton 40 48 200 ne/dly 1 Horizontal Vertical 1 V (2000AV) -/div 1 Horizontal 200 ns/div 2 Vertical 1V (8000 V) -/div 2 Configuration -20dB 25,000 √ Pulser Level Date Link Comments: 13 11



14-85
- T25 - 1/5 - A
0 48
40 08
200 ns/div 1
100A/V)-1/div 1
200 ne/div 2
000V) =/dlv 2
- 20 dB
25,000 V
1312

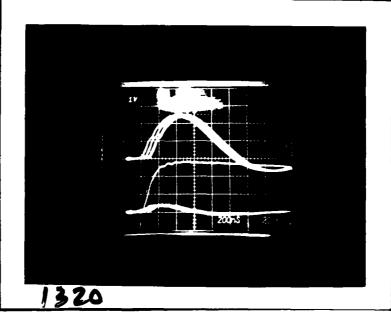


Date 6	-14-85
Teet Point 63	T25-910-A
Amplification	0 48
Attenuation	40 d8
Horizontal	200 ne/dly 1
Vertical 1 V (2	000A/V)=/div 1
Horizontal	200 ne/div 2
Vertical 1V (8	000 V) -/div 2
Configuration	-20dB
Pulser Level	25,000 V
Deta Link	
Comments:	

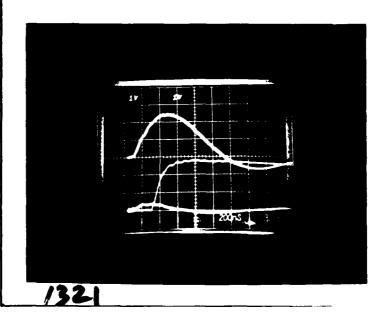


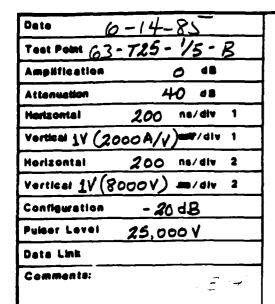
INVALID-see replacement

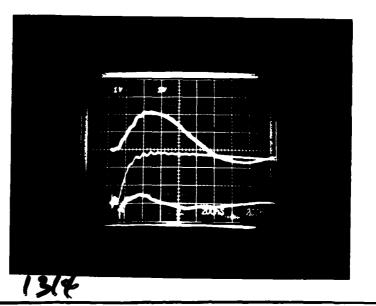
6-14-85 Dete Test Point 63-725-1/15- A Amplification d B Attenuation ns/div Horizontal 200 20004 Vertical /V Horizontal 260 ns/div Vertical IV (8000V) as/div -20 dB Configuration 25 KV Pulser Level Dete Link Comments:



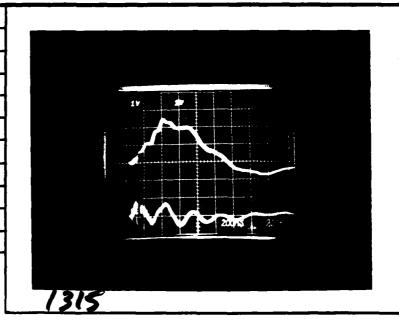
6-14-85 Date Test Point Amplification dB Attenuetion ns/dlv 1 Horizontal 200 Vertical W (2000 9 4/div 1 Horizontal 200 ns/div 2 Vertical /V div 2 8000 V Configuration Pulser Level Date Link Comments: 1321



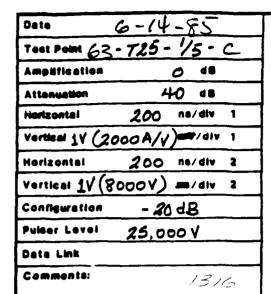


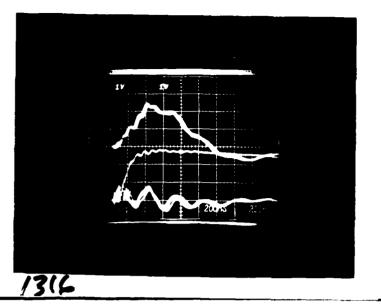


Date 6	-14-85
Test Point 63	T25-410-B
Amplification	0 48
Attenuation	40 de
Horizontai	200 ns/dlv 1
Vertical 17 (2	000A/V)=/dlv 1
Horizontal	200 ne/div 2
Vertical 1V (8	000 V) -/div 2
Configuration	-20dB
Pulser Level	25,000 V
Deta Link	
Comments:	

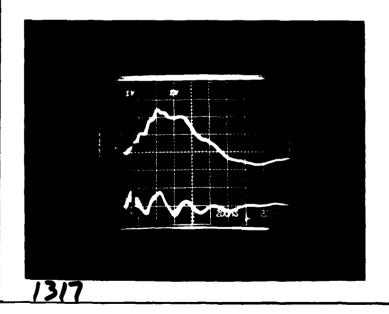


INVALID - see Rephasement

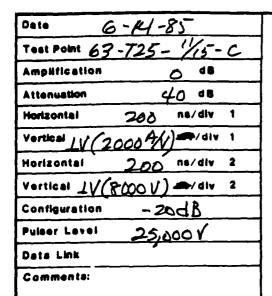


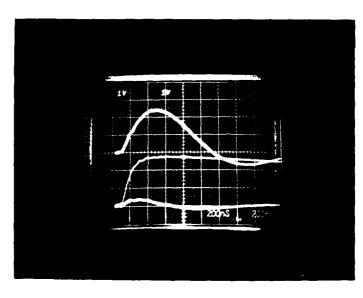


Date 6	-14-85
Test Point 63 .	T25-910-C
Amplification	0 48
Attenuation	40 dB
Horizontal	200 ne/dlv 1
Vertical 1V (2)	000A/V)=/div 1
Horizontal	200 ne/div 2
Vertical 1V (8	000 V) -/div 2
Configuration	-20dB
Pulser Level	25,000 V
Data Link	
Comments:	1217

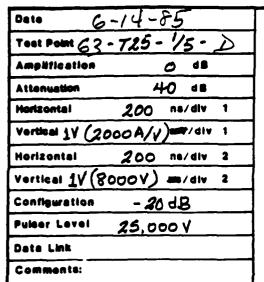


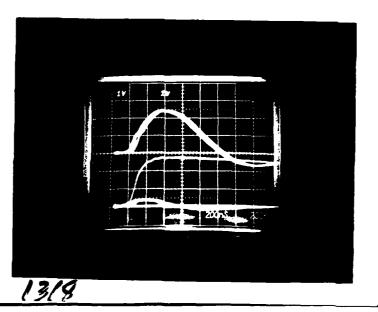
INVALID; see replacement



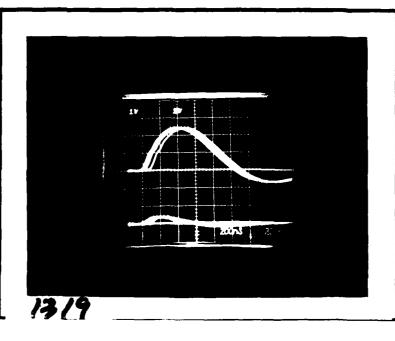


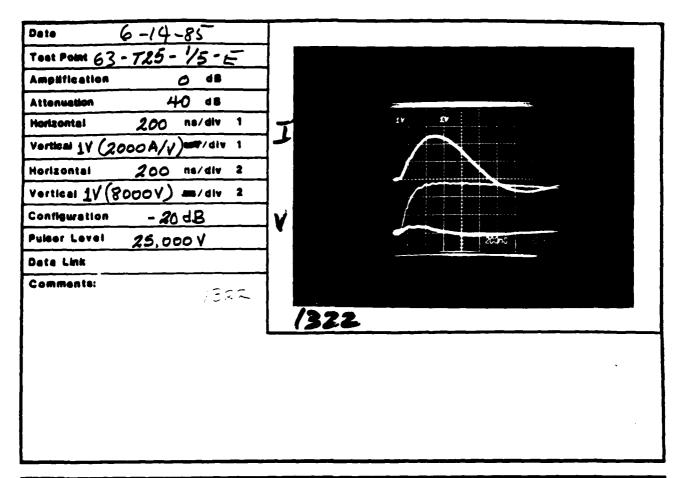
	A
Date 6-14	7-85
Test Point 63-725	
Amplification	0/48
Attenuation	40 00
Horizontal 200	ne/div 1
Vertical IV (2000/7	V) div 1
Horizontal 300	ne/div 2
Vertical /V 8000 V	) - div 2
	zodB
Pulser Level 2510	200V
Data Link	X
Comments:	\

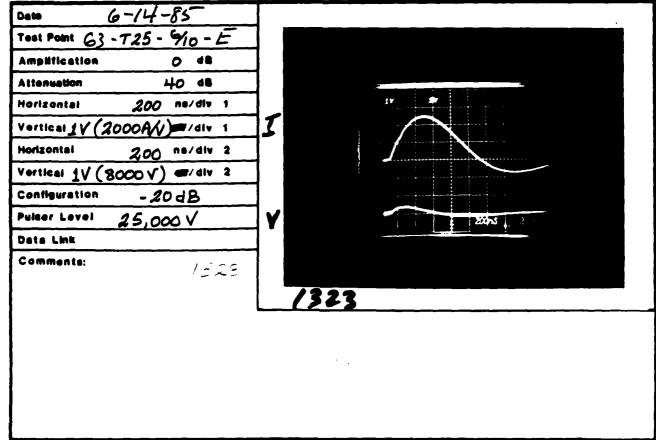


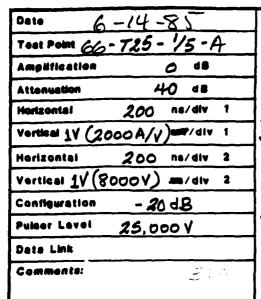


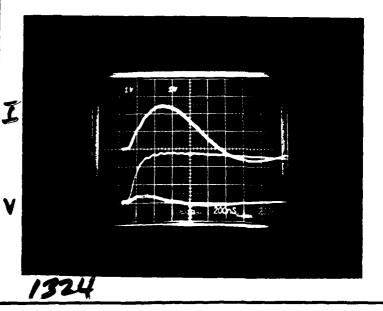
Date 6	-14-85
Test Point 63 -	T25-910-D
Amplification	0 48
Attenuation	40 48
Horizontal	200 ne/div 1
Vertical 14 (20	000AN)=/dlv 1
Horizontal	200 ne/div 2
Vertical 1V (8	000 V) 4 div 2
Configuration	-20dB
Pulser Level	25,000 V
Data Link	
Comments:	

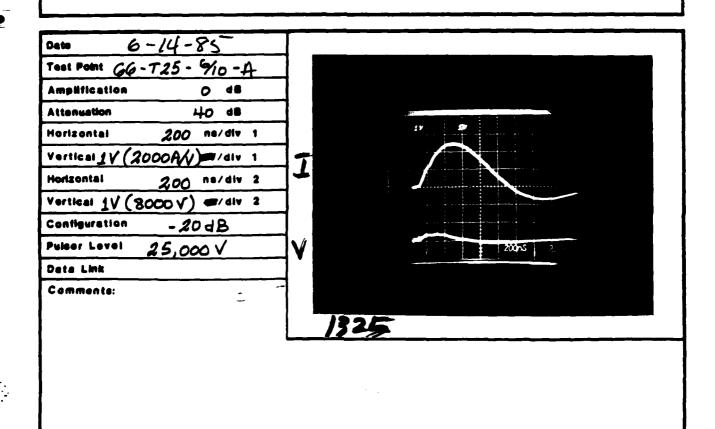


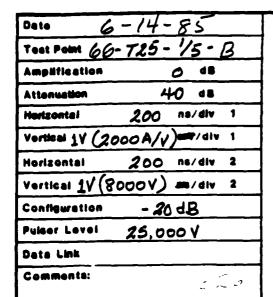


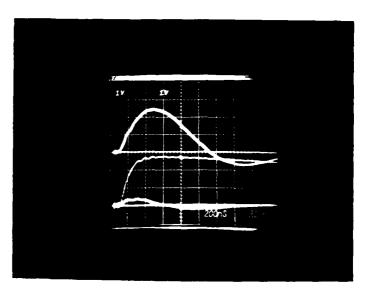




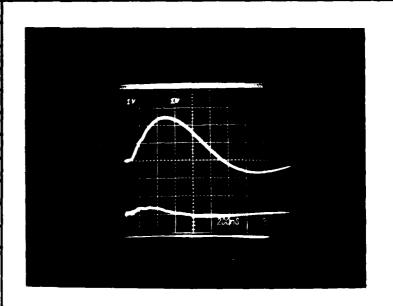




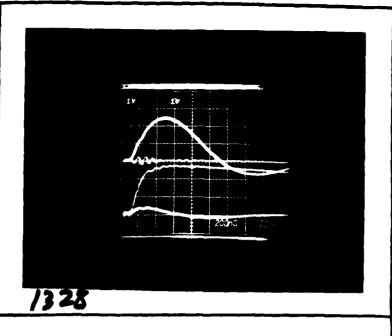




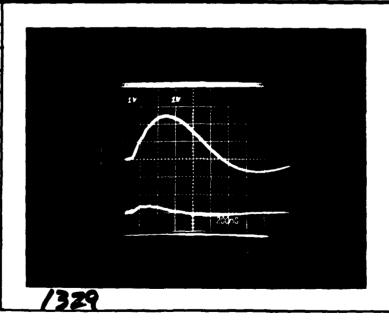
Date 6	-14-85
Test Point 66 -	T25-410-B
Amplification	0 48
Attenuation	40 48
Horizontal	200 ne/div 1
Vertical 17 (2)	000AN)=/div 1
Horizontal	200 ne/div 2
Vertical 1V (8	000 V) -/div 2
Configuration	-20dB
Pulsor Level	25,000 V
Date Link	
Comments:	7

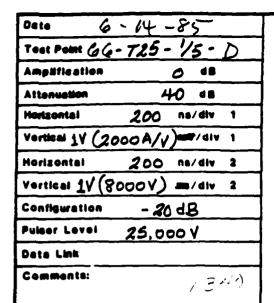


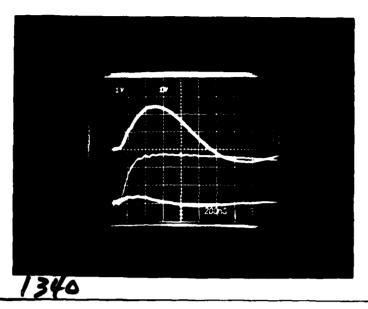
Date Tool Point 66-725-1/5-C Amplification 0 40 Attenuetton dS 200 ns/dly Herizontal Vertical 1V (2000 A/V) -7/div 1 200 ne/div Horizontal Vertical 1V (8000V) =/div 2 - 20 dB Configuration Pulser Level 25,000 V Data Link Comments: 323



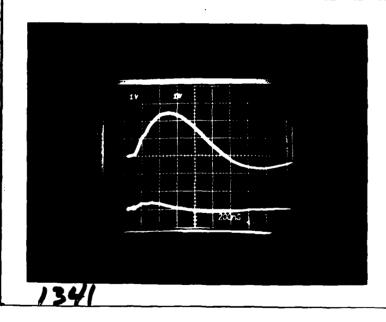
6-14-85 Date Teel Point 64-T25-410-C Amplification 40 Attenuation 48 Horizontal 200 ne/dlv 1 Vertical 1V (2000AV) /div Horizontal ne/dlv 2 div 2 Vertical 1V (8000 V) -20dB Configuration Pulser Level 25,000 V Date Link Commente: 227

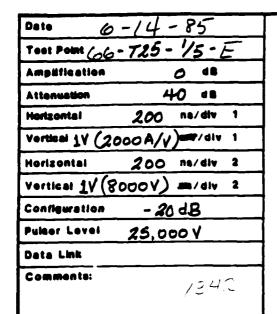


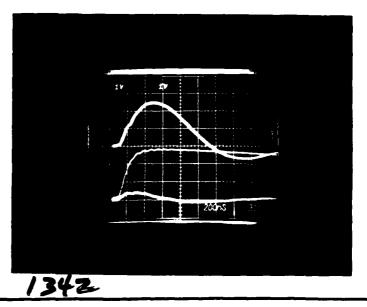




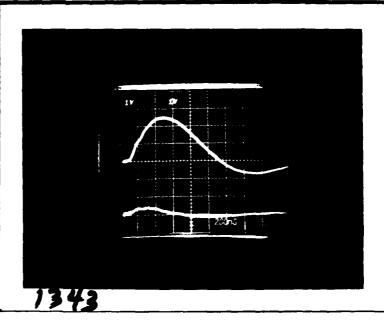
Date 6	-14-85
Teel Point 66	-T25 - 410 - D
AmpHilication	0 48
Attenuetton	40 48
Horizontal	200 ne/dlv 1
Vertical 1V (2	000AN)=1/414 1
Horizontal	200 ne/div 2
Vertical 1V (8	8000 V) -/div 2
Configuration	-20dB
Pulser Level	25,000 V
Data Link	
Comments:	130

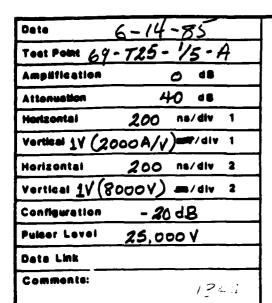


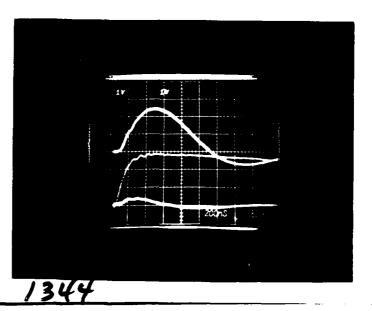




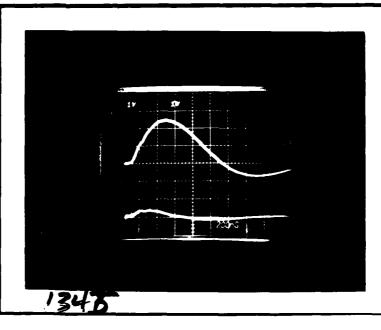
Date 6	-14-85
Test Point 66-	T25-410-E
Amplification	0 48
Attenuation	40 48
Horizontal	200 ne/dlv 1
Vertical 1V (20	000A/V)=/dlv 1
Horizontal	200 ne/div 2
Vertical 1V (80	000 V) -/div 2
Configuration	-20dB
Pulser Level	25,000 V
Date Link	
Comments:	7343



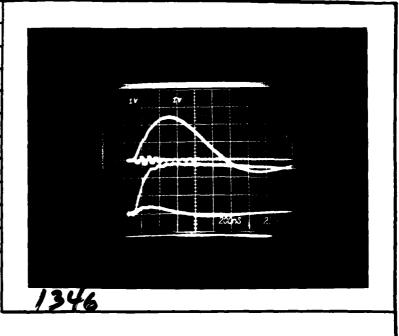




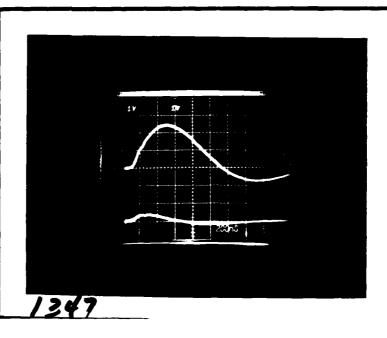
Date	6-14-85
Test Point 69.	T25-910-A
Amplification	0 48
Attenuation	40 48
Horizontai	200 ns/dlv 1
Vertical IV (2000AV) -/div 1	
Horizontal	200 ne/div 2
Vertical 1V (8	000 V) 4 div 2
Configuration	-20dB
Pulser Level	25,000 V
Date Link	
Comments:	

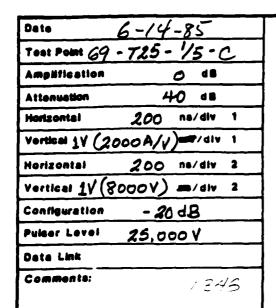


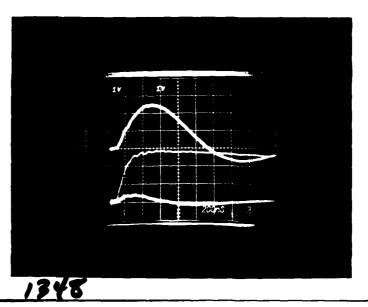
Date 6-14-85 Test Point 69 - 725 - 1/5 - 8 Amplification 45 40 dB Attenuation ns/dlv Hertzontal 200 Vertical 14 (2000 A/V) 200 Horizontal ns/div Vertical 1V (8000V) =/div - 20 dB Configuration Pulser Level 25,000 V Dete Link Comments: 246



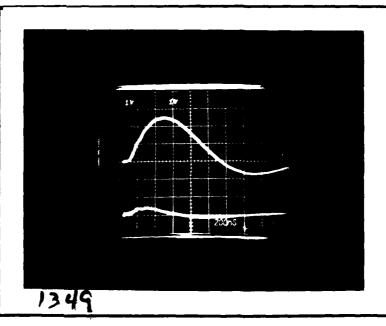
0-14-85 Dete Test Pant 69 - T25 - 910 - 12 dE Amplification 40 48 Attenuetton ne/dly 1 200 Horizontal Vertical 1 V (2000A/V) 1/div 1 Horizontal 200 ns/dlv 2 Vertical 1V (8000 V) 4 div 2 Configuration -20dB Pulser Level 25,000 V Date Link Comments: 1347



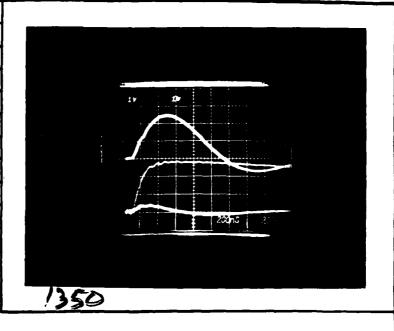




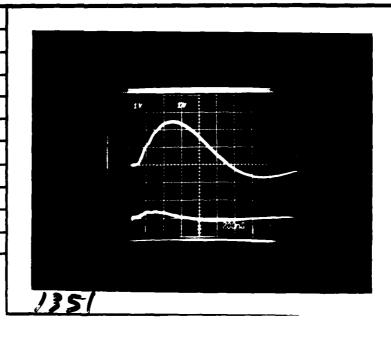
Dete 6-	-14-85
Test Point 69-	T25-410-C
Amplification	0 48
Attenuetion	40 48
Horizontal	200 ne/dlv 1
Vertical IV (2000A/V)=/div 1	
Horizontal	200 ne/div 2
Vertical 1V (8	000 V) 47/dlv 2
Configuration	-20dB
Pulser Level	25,000 V
Data Link	
Commente:	1341

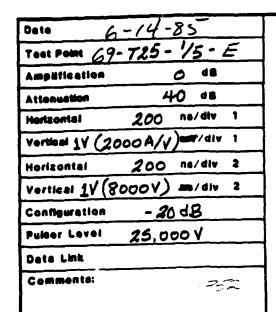


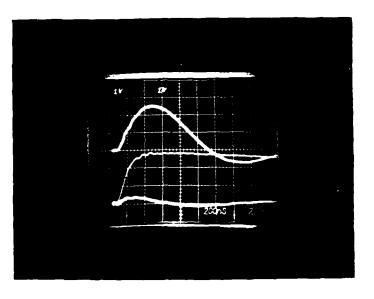
Tool Point 69 - 725 - 1/5 - D Amplification 40 d8 Attenuetion 200 ne/dly 1 Horizontal Vertical 14 (2000 A/V) -/div 1 200 ns/dlv 2 Horizontal Vertical 14 (80004) =/div 2 - 20 dB Configuration Pulser Level 25,000 Y Data Link Comments:



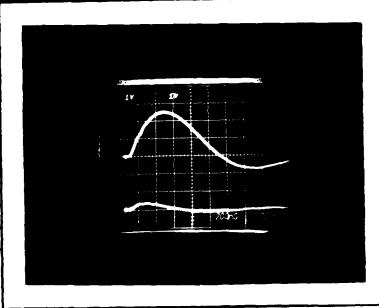
Date	6-14-85
Test Point 69	-T25-910-D
Amplification	0 48
Attenuation	40 48
Horizontal	200 ne/dlv 1
Vertical 1V (2	1 1 1 1 ( ) ( ) ( ) ( ) ( )
Horizontal	200 ns/div 2
Vertical 1V (	8000 V) -/div 2
Configuration	-20dB
Pulser Level	25,000 √
Data Link	
Comments:	1351







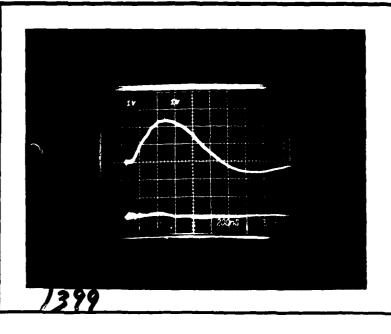
Date 6	- 14 - 85
Test Point 69	-T25-910-E
Amplification	0 48
Attenuation	40 48
Horizontal	200 ne/div 1
Vertical 1V (2000A/V)=/div 1	
Horizontal	200 ne/div 2
Vertical 1V (8000 V) -/div 2	
Configuration	-20dB
Pulser Level	25,000 V
Date Link	
Comments:	/353



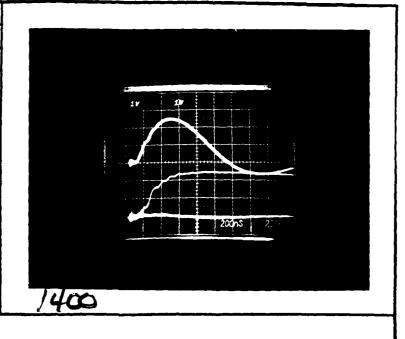
6-17-85 Dete Teet Point 70 - 725 - 15 - A Amplification Attenuetten 40 dB Hertsental 200 ns/dlv Vertical 14 (2000 A/V) - div 1 200 ns/div Horizontal Vertical 1V (8000V) -/div 2 - 20 dB Configuration Pulser Level 25,000 V Date Link Comments: 1378

1398

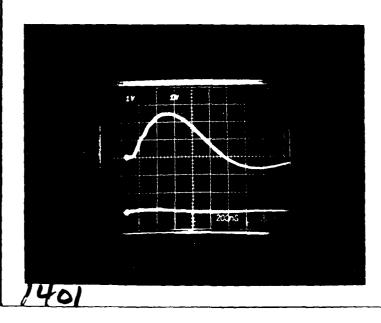
6-17-85 Test Point 70 - T25 - 910 - A Amplification 0 48 40 de Attenuation 200 ne/dly 1 Horizontal Vertical 1V (2000AV) /div 1 IstnoznoH 200 ne/div 2 Vertical 1V (8000 V) 4 div 2 -20dB Configuration 25,000 V Pulser Level Data Link Comments:



6-17-85 Dete Test Point 70-725-15-8 AmpHilcation dB 0 40 d B Attenuetion 200 ns/dlv Hortzontal Vertical 14 (2000 A/V) -/div 200 Horizontai ns/dlv Vertical 1V (8000V) =/div - 20 dB Configuration 25,000 V Pulser Level Data Link Comments:

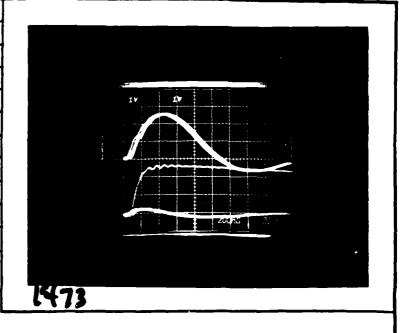


Date 6-17	1-85
Test Point 70.	T25-910-B
Amplification	0 48
Attenuetion	40 48
Horizontal	200 ne/dly 1
vertical 1V (2	000A/V)=/div 1
Horizontal	200 ne/div 2
Vertical 1V (8	000 V) -/41V 2
Configuration	-2048
Pulsor Level	25,000 V
Data Link	
Comments:	

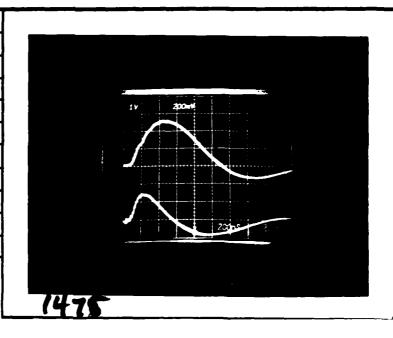


REPEAT "I" TEIT

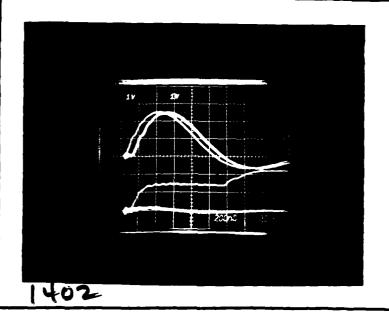
Date 6-18-85 Test Point 70- 725- 15- C Amplification 40 ds Attenuation 200 ns/div Horizontal Vertical // (2000 4/1) Horizontal ns/div 2 Vertical IV (8000V) Media 2 - 2001 R Configuration Pulser Level Data Link Comments:



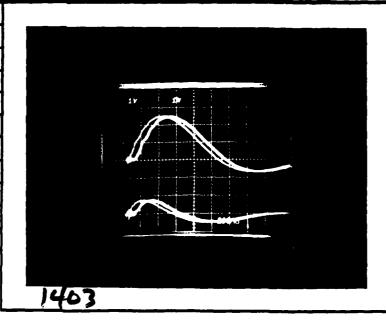
6-18-85 Dete Test Point 70-T25-6/10-C Amplification dB dB Attenuation ne/dlv 1 Horizontal 200 Vertical /1/2000 4/V m¥/dlv 1 Horizontal ne/div 2 Vertical .2V serdiv 2 Configuration Pulser Level 25,0001 Date Link Comments:



6-17-85 Dete Tool Point 70-725-15-C Amplification 40 48 Attenuation Herizontai 200 ns/dlv Vertical 14 (2000 A/V) - div 200 ns/div Horizontai Vertical 17 (80007) =/div - 20 dB Configuration Pulser Level 25,000 V Data Link Comments: 1154



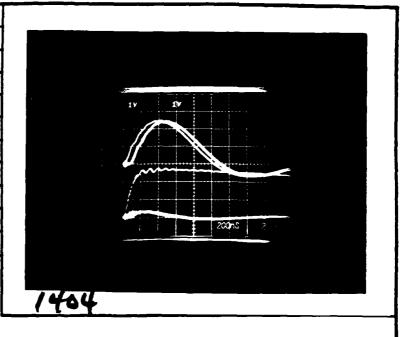
6-17-85 Teet Point 70-T25-910-C Amplification Attenuetion 40 48 Horizontal 200 ne/dly 1 Vertical JV (2000A/V) /div 1 Horizontal 200 Vertical 44 ( 2000 Y) Configuration -20dB Pulser Level 25,000 V Date Link Comments: 433



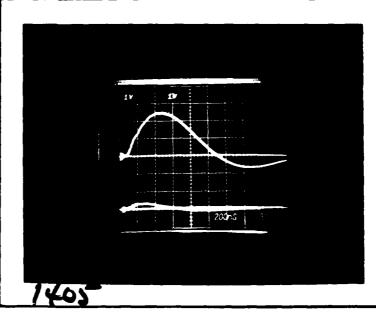
V @ .2V (1600V) | DIV

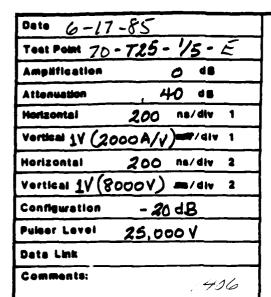
probably invaled

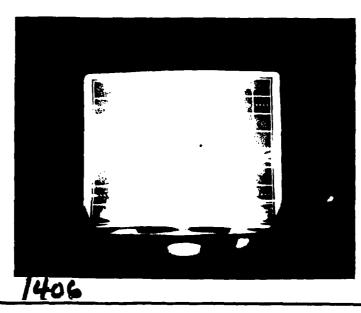
6-17-85 Dete Tool Point 70 - 725 - 15 - D 0 48 Ampatication 40 Attenuation ds 200 ne/div Horizontal Vertical 17 (2000 A/V) - div 1 200 ns/dlv 2 Horizontal Vertical 17 (80007) =/div 2 - 20 dB Configuration 25,000 V Pulser Level Data Link Comments:



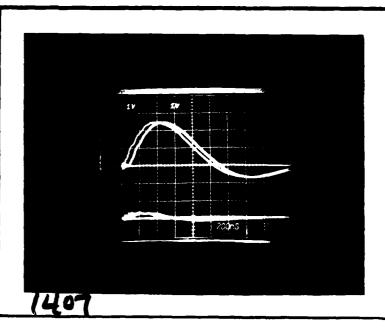
Date 6-17-	85
Test Point 70-	T25-410-D
Amplification	0 48
Attenuation	40 48
Horizontal	200 ne/dlv 1
Vertical 17 (20	000A/V)=/div 1
Horizontal	200 ne/div 2
Vertical 1V (8000 V) #/div 2	
Configuration	-20dB
Pulser Level	25,000 V
Data Link	
Comments:	**************************************



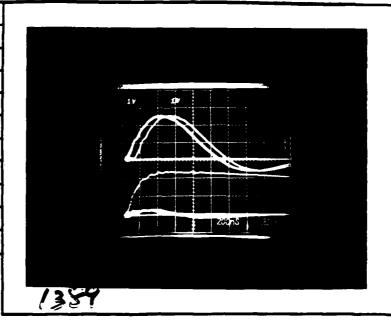




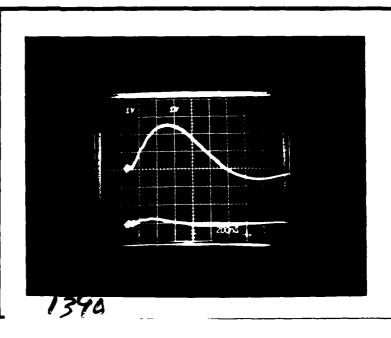
-85	
-T25-910-E	
0 48	
40 ds	
200 ne/dly 1	
Vertical JV (2000AV) M/div 1	
200 ne/dly 2	
Vertical 1V (8000 V) -/div 2	
-20dB	
25,000 √	
1407	



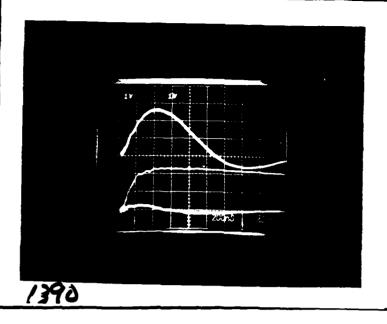
6-17-85 Date Test Point 73 - 725 - 1/5 - A Amplification 0 48 40 48 Attenuetion ns/dlv 200 Herizontal Vertical 17 (2000 A/V) Horizontal 200 na/div Vertical 14 (80004) =/div 2 -20 dB Configuration 25,000 V Pulser Level Date Link 520 Comments:



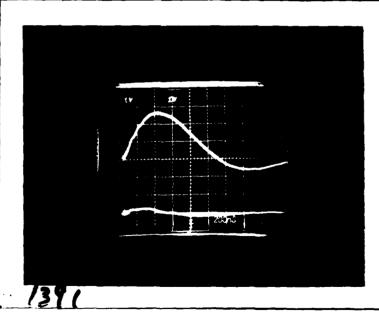
Date 6-17-	85
Test Point 73 .	T25-910-A
Amplification	0 45
Attenuation	40 48
Horizontal	200 ne/div 1
Vertical 17 (2)	000A/V)=/dlv 1
Horizontal	200 ns/div 2
Vertical 1V (8	000 V) -/dlv 2
Configuration	-20dB
Pulser Level	25,000 V
Data Link	
Comments:	



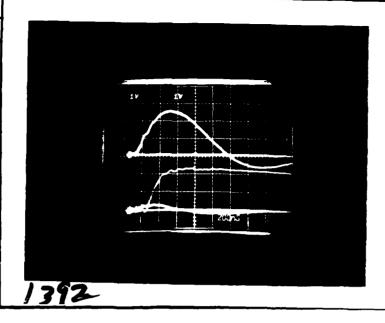
6-17-83 Dete Tool Point 73 - 725 - 15 - B 0 48 Amplification 40 Attenuation dB ns/div Hertzental 200 Vertical 14 (2000 A/V) - div 1 Horizontal 200 ne/dly 2 Vertical 14 (80004) =/div 2 - 20 dB Configuration Pulser Level 25,000 V Date Link Comments: テック



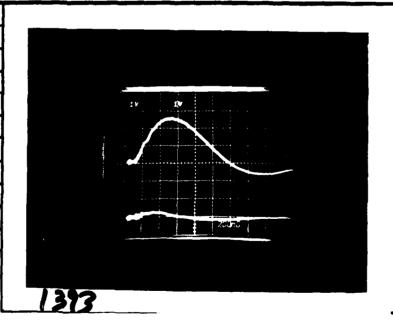
6-17-85 Dete Test Point 73 - T25 - 910 - B Amplification 0 48 Attenuetion 40 48 200 ne/dly 1 Horizontai Vertical 1 V (2000A/V) /div 1 200 ne/div 2 Horizontal Vertical 1V (8000√) €/41v 2 Configuration -20dB Pulser Level 25,000 √ Data Link Comments: 311



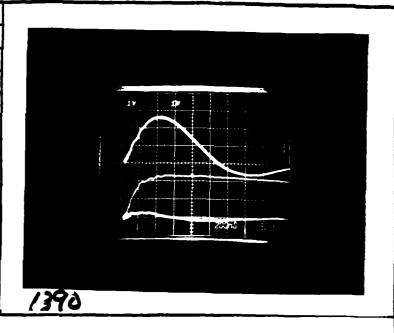
6-17-85 Dete Tool Point 73-725-1/5-@ Ampatheation 0 48 40 Attenuetten 48 ns/div Hertzental 200 Vertical 14 (2000 A/V) -7/div 1 Horizontai 200 ns/div 2 Vertical 1V (8000V) =/div 2 - 20 dB Configuration Pulser Level 25,000 V Date Link Comments:



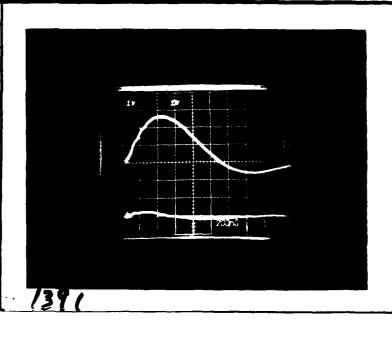
Date 6-17-85 Test Point 73 - T25 - 910 - C Amplification Attenuetion 40 dB Horizontal 200 na/dly 1 Vertical 1 V (2000A/V) /div 1 200 ne/div 2 Horizontal Vertical 1V (8000 V) -/div 2 Configuration -20dB Pulser Level 25,000 V Date Link Comments:



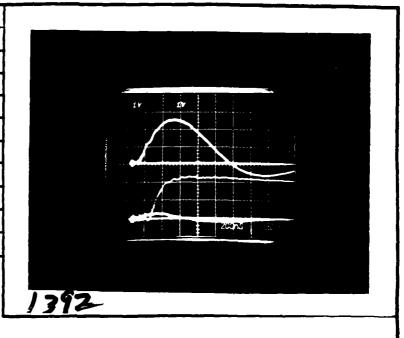
6-17-83 Dete Test Point 73 - 725 - 15 - B Amplification ds 0 40 Attenuation 48 ns/div Hertzontal 200 Vertical 14 (2000 A/V) 200 Horizontal ns/div Vertical 1V (8000V) =/div - 20 dB Configuration Pulser Level 25,000 V Date Link Comments:



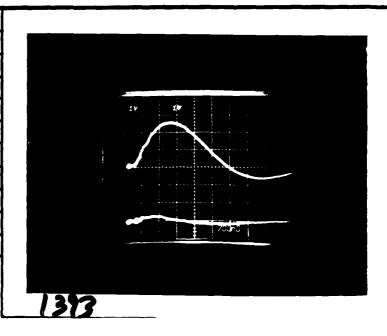
6-17-85 Dete Test Point 73 - T25 - 910 - B Amplification 48 Attenuation 40 48 Horizontal ne/dlv 1 200 Vertical JV (2000AV) 1/div 1 Horizontal ne/div 2 200 Configuration -20dB Pulser Level 25,000 V Date Link Comments: 1311

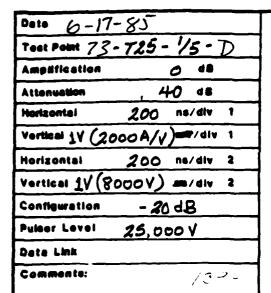


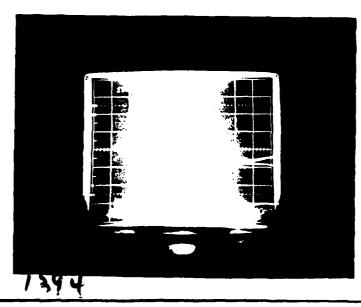
Date 6-17-85
Test Point 73-725-1/5-C Amplification 0 46 40 dS Attenuation ns/dlv Horizontal 200 Vertical 14 (2000 A/V) - div 1 200 ne/div 2 Horizontal Vertical 1V (8000V) -/div 2 -20 dB Configuration Pulser Level 25,000 V Date Link Comments:



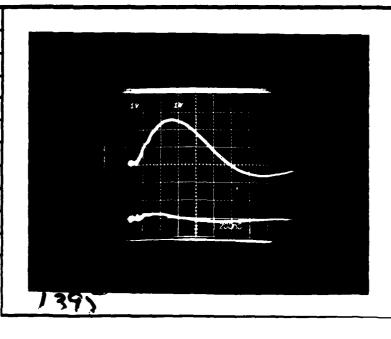
Date 6-17-85 Test Point 73 - 725 - 9/10 - C Amplification 0 48 Attenuetion 40 48 200 ne/dly 1 Horizontal Vertical 17 (2000AN) -/div 1 200 ne/div 2 Horizontal Vertical 1√ (8000√) 45/div 2 Configuration -20dB Pulser Level 25,000 V Data Link Comments:

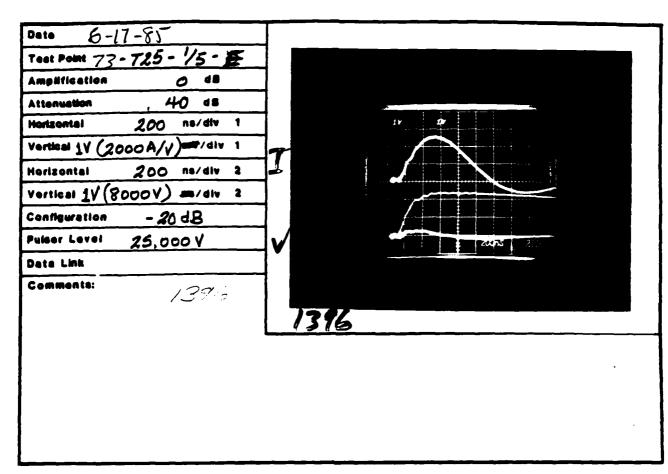


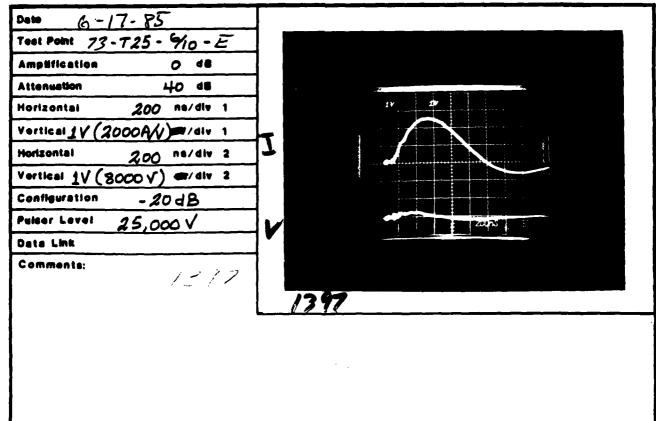


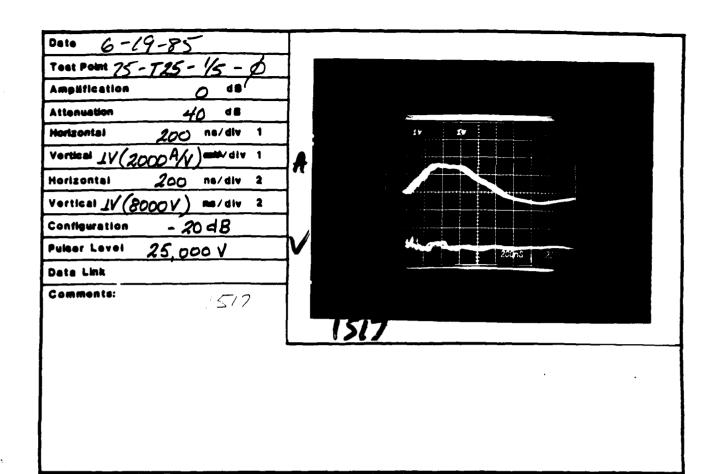


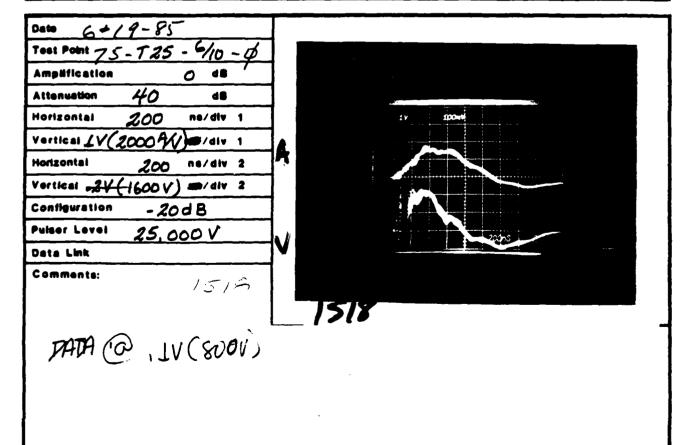
Dete 6-17	-85
Test Point 73 -	T25-910-D
Amplification	0 48
Attenuation	40 48
Horizontal	200 ne/dlv 1
Vertical 17 (20	000A/V)=/div 1
Horizontal	200 ne/div 2
Vertical 1V (8	000 V) -/div 2
Configuration	-20dB
Pulser Level	25,000 V
Date Link	
Comments:	1315

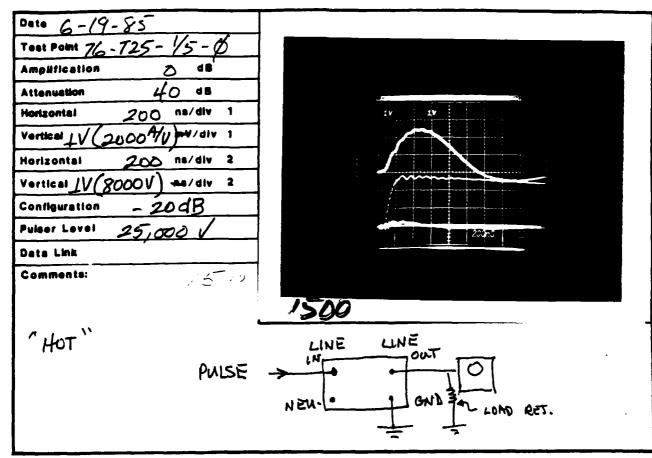


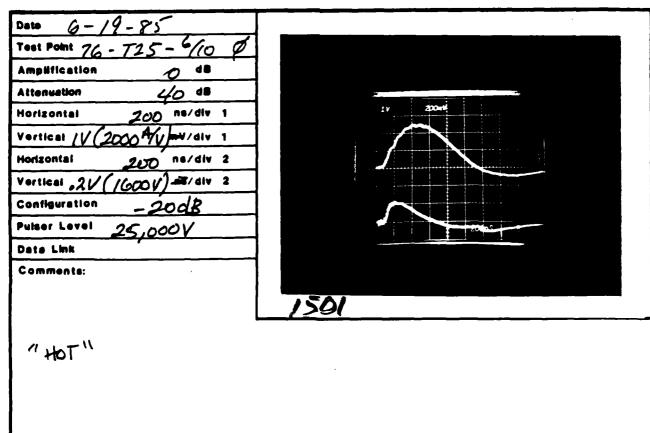


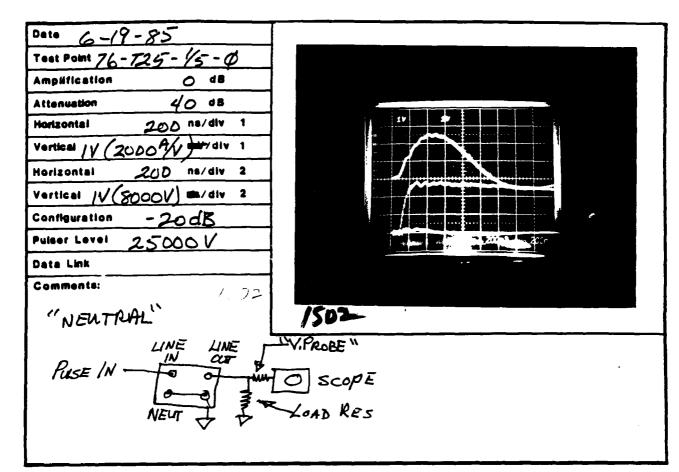


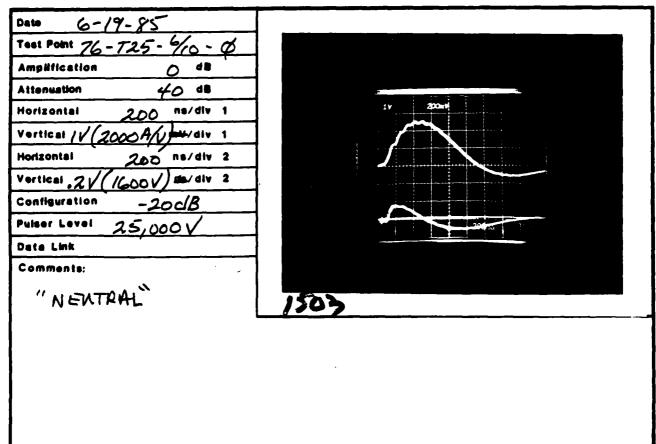


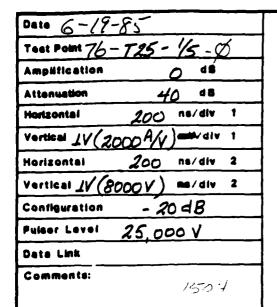


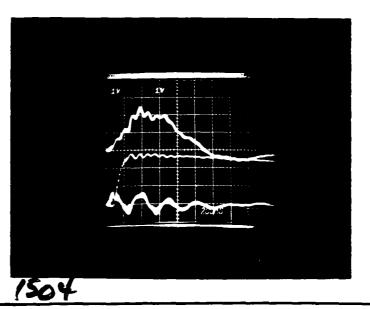


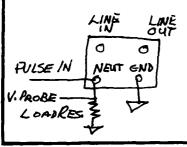




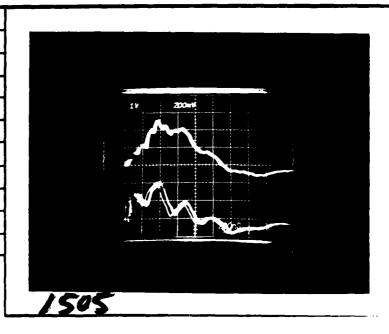


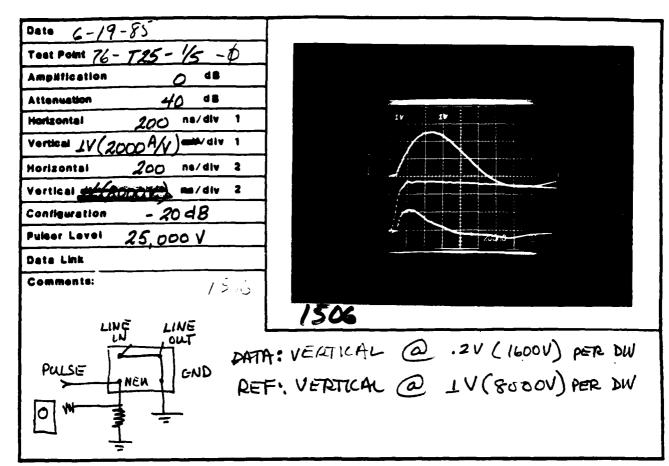




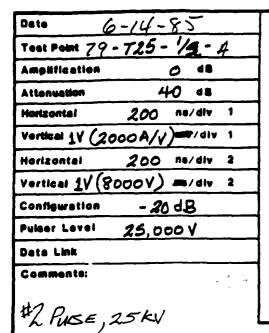


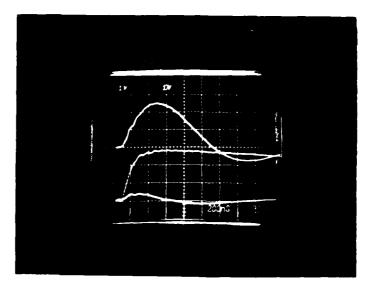
Dete Test Point 76 - T25 - 6/10 Amplification dS 40 dB Attenuetion 200 ne/dlv 1 Horizontal Vertical LV (2000 9/ J/dlv 1 Horizontal ne/div 2 200 Vertical .2V (1600 V) -/div 2 -20dB Configuration Pulser Level 25,000 V Date Link Comments:





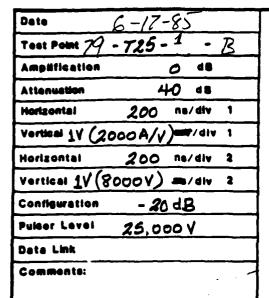
Date 6-19-85	
Test Point 76- T25 - 6/10 -0	
Amplification OdB	
Attenuation 40 dB	
Horizontal 200 ne/dly 1	
Vertical LV (2000 PV) -/div 1	21/1/0
Horizontal 200 ns/div 2	No bimio
Vertical .2V (1600 V) =/div 2	14
Configuration - 20 d B	
Pulser Level 25,000 V	•
Data Link	
Comments:	
<u> </u>	

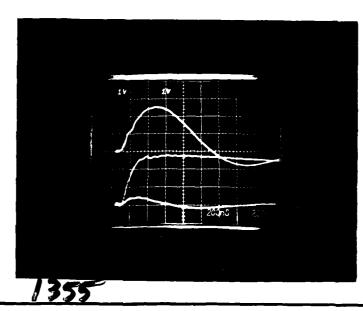




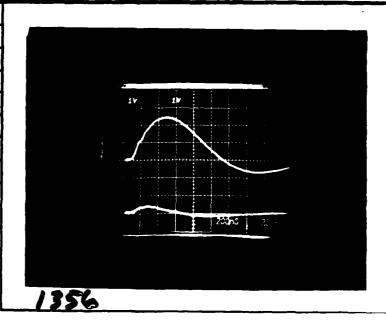
Date 6-	-14-85
Test Point 79-	T25-910-A
Amplification	0 48
Attenuation	40 dB
Horizontai	200 ne/dlv 1
Vertical 1V (20	100AN) 1 /41V 1
Horizontal	200 ne/div 2
Vertical 1V (80	000 V) 47/div 2
Configuration	-20dB
Pulser Level	25,000 V
Data Link	
Comments:	

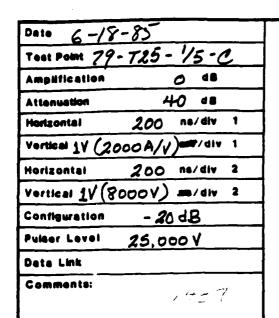
No planto

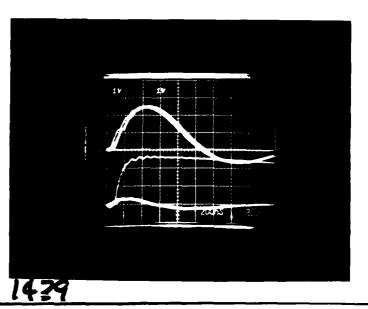




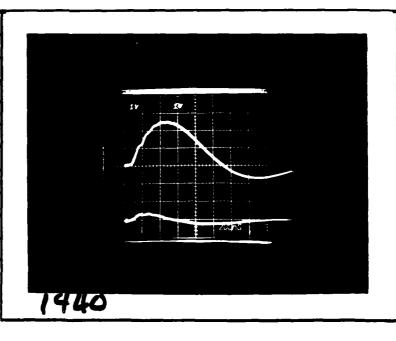
المستراب المستراب المستراب	
Dete	6-17-85
Test Point 79	-T25-7/1- B
Amplification	0 48
Attenuation	40 de
Horizontal	200 ne/dlv 1
Vertical 1V (2	2000A/V)=/div 1
Horizontal	200 ne/div 2
Vertical 1V (	8000 V) 4 div 2
Configuration	-2048
Pulser Level	25,000 V
Data Link	
Comments:	1356
	1506

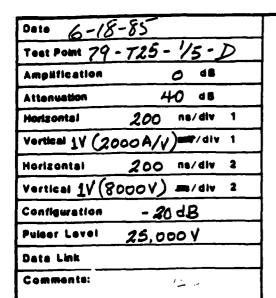


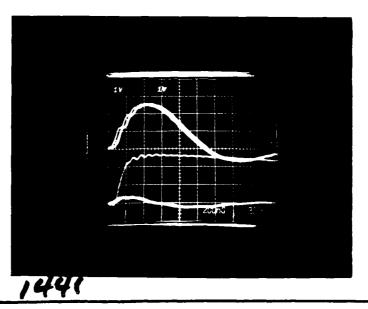




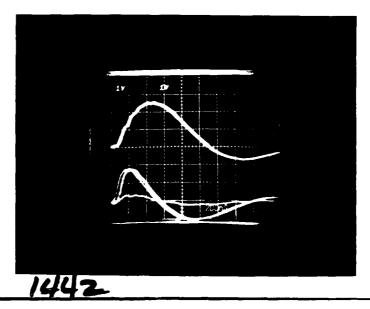
Date 6-18-	85
	T25-910-C
Amplification	0 48
Attenuation	40 48
Horizontal	200 ne/dlv 1
Vertical JV (2)	000A/V)=/dlv 1
Horizontal	200 ne/div 2
Vertical 1V (8	000 V) -/div 2
Configuration	-20dB
Pulser Level	25,000 √
Data Link	
Comments:	11/20



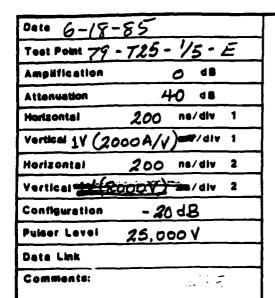


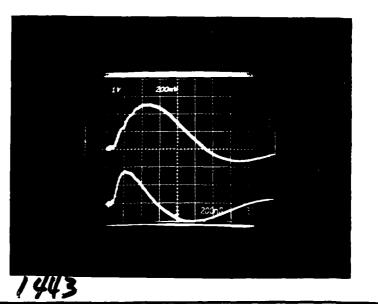


Date 6-18-85 Test Point 79 - T25 - 910 - D 0 48 Amplification 40 48 Attenuation Horizontal 200 ne/div 1 Vertical IV (2000A/V)=W/div 1 Horizontal ns/dlv 2 200 div 2 VerticaLANGESCOOPE) -20dB Configuration 25,000 √ Pulser Level Data Link Comments:



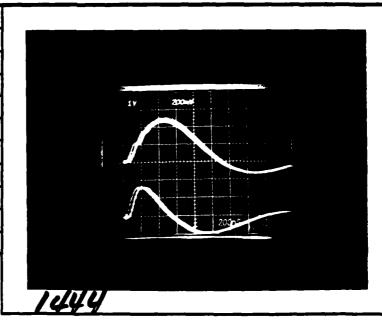
VERTICAL 12V ( 1600V) div



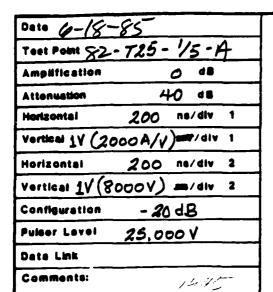


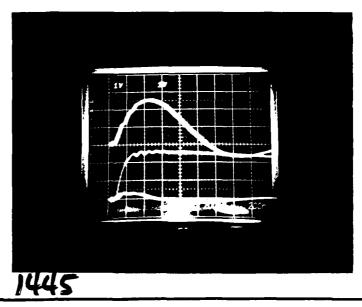
VERTIAL @ .2V (1600V) Per.div. 2

Date 6-18-	85
	T25-910-E
Amplification	0 48
Attenuetion	40 48
Horizontal	200 ne/dlv 1
Vertical 1V (2	000AN) 1
Horizontal	200 ne/div 2
Vertical WALES	000 () = (div 2
Configuration	-20dB
Pulser Level	25,000 V
Data Link	
Comments:	·

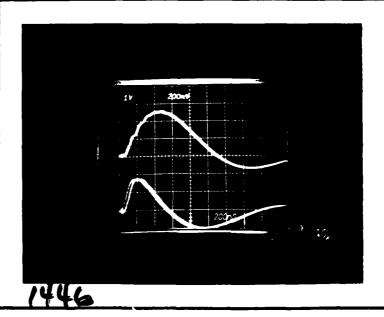


VERTICAL @ .2V (1600V) per.div. 2



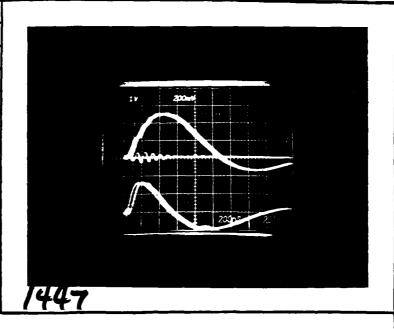


Date 6-18-	85
Test Point 82.	T25-910-A
AmpHication	0 48
Attenuation	40 46
Horizontal	200 ne/dlv 1
Vertical 1V (2	000A/V)=/dlv 1
Horizontal	200 ns/div 2
Vertical 41/6	acous) a/div 2
Configuration	-20dB
Pulsor Level	25,000 V
Data Link	
Comments:	1715



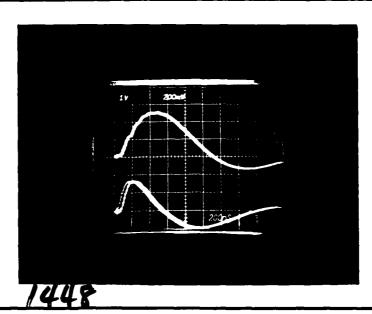
VERTICAL . 2 V (1600V) div-

Test Point 82 - 725 - 15 - 8 Amplification Attenuation d S 200 Herizontal Vertical 1V (2000 A/V) - div 200 ns/div Horizontai Vertical de la de la div - 20 dB Configuration 25,000 V Pulser Level Dete Link Comments: 1447



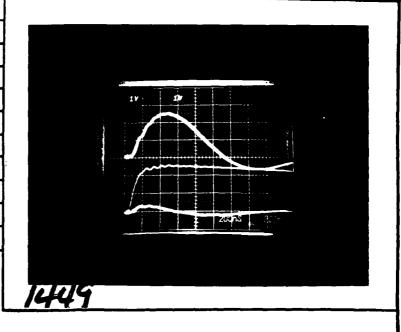
VERTICAL @ 12V (1600V) per div.

85	Date 6-18
T25-410-B	
0 48	Amplification
40 dB	Attenuetton
200 ne/dly 1	Horizontal
100A/V)=1/div 1	Vertical 17 (2
200 ne/dly 2	Horizontal
mar/div 2	Vertical 44
-20dB	Configuration
25,000 V	Pulser Level
	Date Link
7 m 4, 6	Comments:
100	Comments:

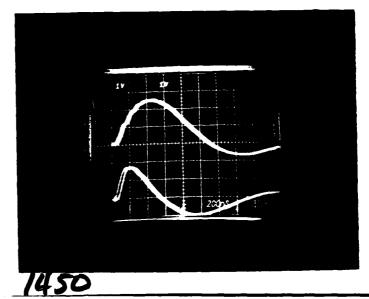


vertical ,2V(1600V) pardiv.

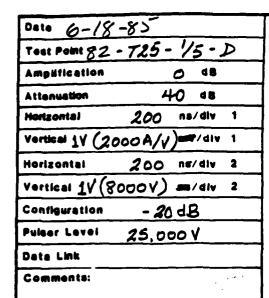
Date 6-18-85 Toot Point 82 - 725 - 1/5 - C Amplification 40 d S Attenuetton 200 Hortzontal Vertical 17 (2000 A/V) - div 1 200 ns/dlv Horizontal Vertical 17 (80004) =/div -20 dB Configuration 25,000 V Pulser Level Date Link Comments: 141

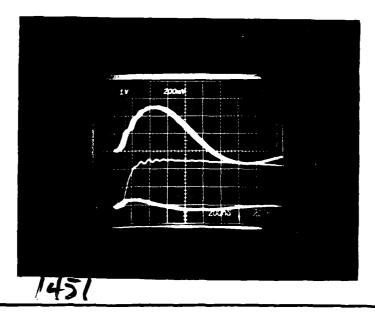


Date 6-18	7-85
Test Point 82	-T25-410-C
Amplification	0 48
Attenuation	40 ds
Horizontal	200 ne/div 1
Vertical 1V (2	000A/V)=1/41V 1
Hortzontal	200 ne/div 2
Vertical	cost) co/div 2
Configuration	-20dB
Pulser Level	25,000 V
Date Link	
Comments:	· · · ·

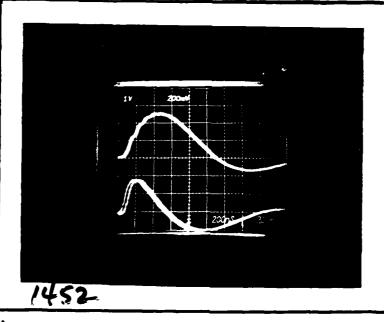


VERTICAL @ .2V (1600 V) per div.

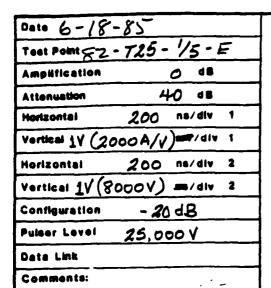


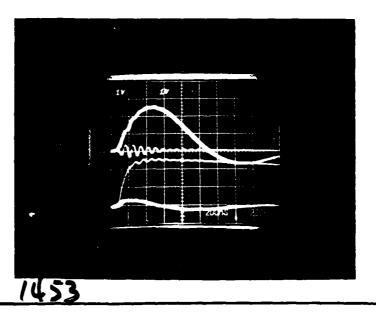


Date 6-18-85 Test Point 82-725-910-D Amplification 40 Attenuation Horizontal 200 ne/dly 1 Vertical IV (2000A/V)=/div 1 Horizontal ns/div 2 200 Vertical careful control of div 2 Configuration -20dB 25,000 V Pulser Level Date Link Comments:

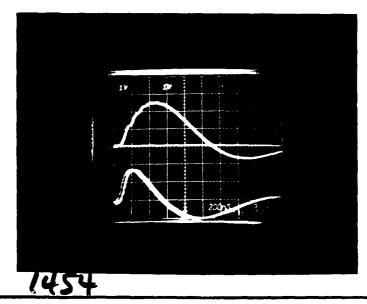


VERTICAL @ .2V (1600V) division.



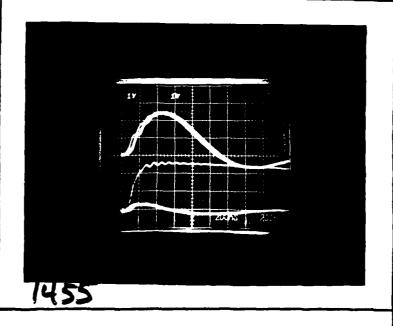


Date 6-18-	85
Test Point 82	T25- 410-E
Amplification	0 48
Attenuation	40 dB
Horizontal	200 ne/dlv 1
Vertical 17 (2)	000A/V)=/div 1
Horizontal	200 ne/div 2
Vertical	000 4 div 2
Configuration	-20dB
Pulser Level	25,000 V
Data Link	
Comments:	1777

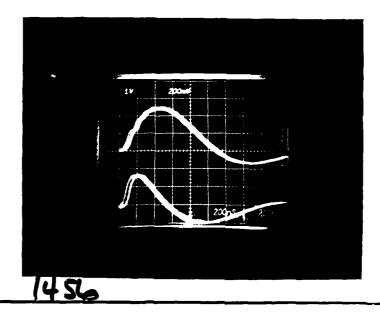


VERTICAL @ ,2V(1600V) pen, div.

0010 6-18-85 Test Point 85-725-15- A 48 Amplification 40 Attenuation 48 Horizontal 200 ns/dlv Vertical 1V (2000 A/V ) div Horizontal 200 Vertical 14 (80004) -/div Configuration -20 dB Pulser Level 25,000 V Data Link Comments:

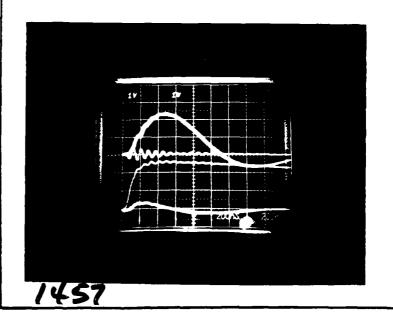


6-18-85 Date Test Point 85-725-910-1 Amplification 0 Attenuation 40 48 Horizontal 200 ns/dlv 1 Vertical 17 (2000A/V Horizontal ne/div 2 200 div 2 Vertical 11 Configuration -20dB Pulser Level Date Link Comments:

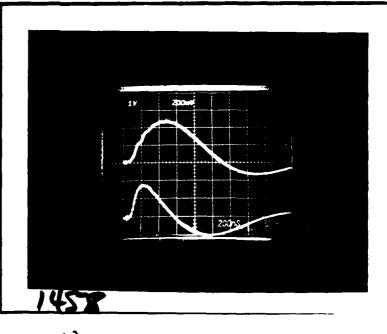


VERTICAL @ 12V (1600V) per div.

Date 6-18-85 Tool Point 85-725-15-B 48 Amplification Attenuation 40 48 ns/div Harizontal 200 Vertical 14 (2000 A/V) /div Horizontal 200 Vertical 1V(8000Y) -/div -20 dB Configuration Pulser Level 25,000 V Data Link Comments: -57

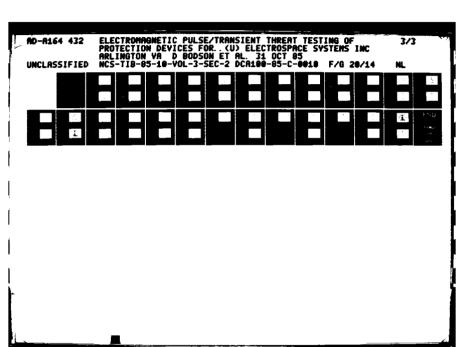


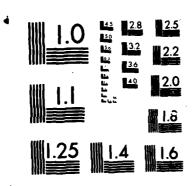
Dete 6-18-85 Test Point 85-T25-910-B Amplification 0 Attenuation dB 40 Horizontai ne/div 1 200 Vertical 14 (2000A/V)=/div 1 Horizontal ns/div 2 200 Vertical 44 (20004) div 2 -20dB Configuration Pulser Level 25,000 V Date Link Comments:



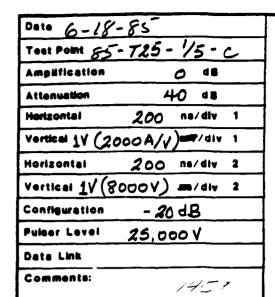
からていることが、一般なななななない。 かいしいかいしゃ かいしんこうしゃ かんきゅうきゅうき

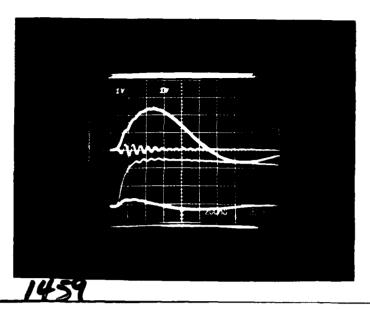
VERTICAL @ .2V (1600V) pen.div.



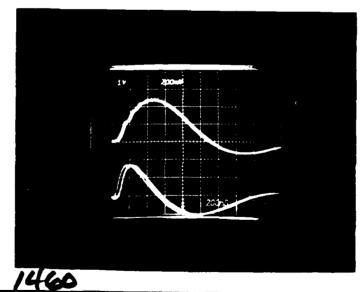


MICROCOPY RESOLUTION TEST CHART

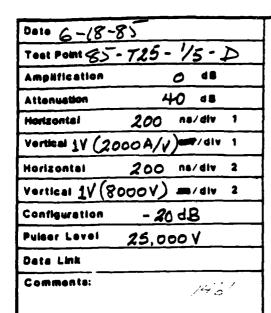


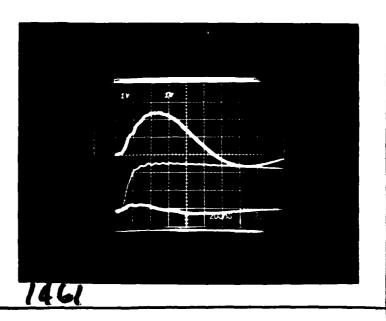


6-18-85 Date Test Point 85-725-910-C Amplification 0 48 Attenuation 40 48 Horizontal 200 ne/dly 1 Vertical IV (2000A/V)=/div 1 Horizontal Vertical 14 cont) co/div 2 Configuration -20dB Pulser Level 25,000 V Data Link Comments:

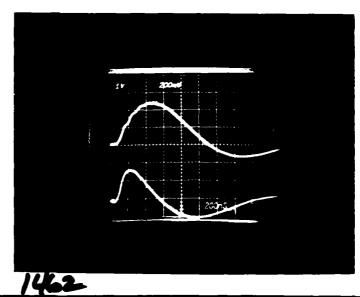


VERTICAL @ 12V (1600V) per div.

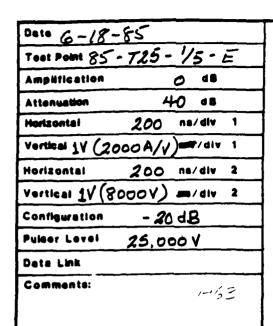


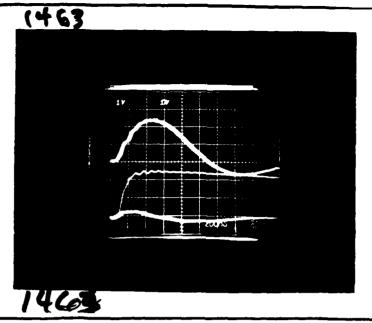


Date 6-18-85 Test Point 85-T25-910 - D Amplification 48 Attenuetion 40 48 ne/dlv 1 Horizontal 200 Vertical 1 V (2000A/V) / div 1 Horizontal ns/div 2 200 dlv 2 Vertical -20dB Configuration Pulser Level 25,000 V Data Link Comments:

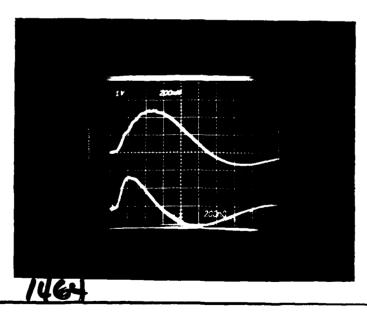


VERTICAL @ .21 (16001) pur div-



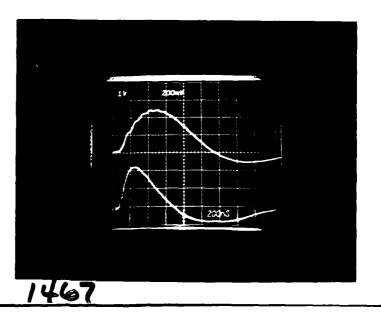


Deto 6-18-85 Test Point 85-T25-910-E Amplification 40 Attenuation Horizontal ne/dlv 200 Vertical IV (2000AN) -/div Horizontal ne/div 2 200 div 2 Vertical Configuration -20dB Pulser Level 25,000 V Date Link Commente: 4:4



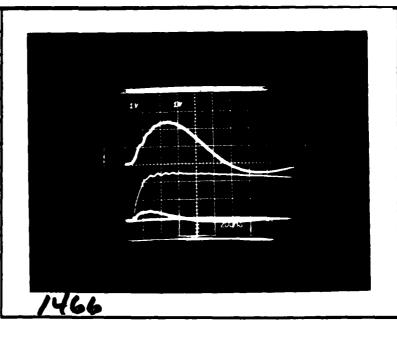
VERTICAL @ .2V (1600V) per.div.

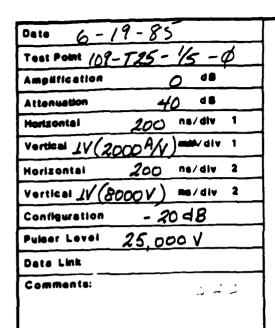
6-18-85 Test Point (G) - 725 - \$ Amplification 40 48 Attenuetton ns/dlv Hortzontal 200 Vertical 17 (2000 A/V) -/div Horizontal 200 ns/dlv Vertical 14 (20004) =/div - 20 dB Configuration 25,000 V Pulser Level Date Link 1467 Comments:

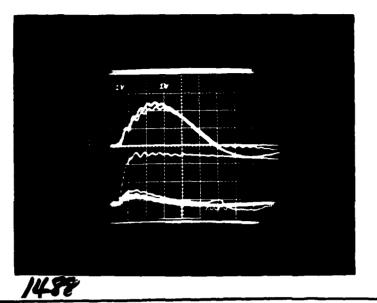


VERTICAL @ .2 V (1600V) per, div.
pulses 1/5 (NO PHOTO)

6-18-85 Cate Test Point /0/-T25 - 910 - Q Amplification 40 Attenuation Horizontal 200 ne/dly 1 Vertical 1 V (2000A/V) / div Horizontal 200 ne/div 2 Vertical 1√ (8000 √) div 2 Configuration -20dB Pulser Level 25,000 V Date Link 1466 Comments:

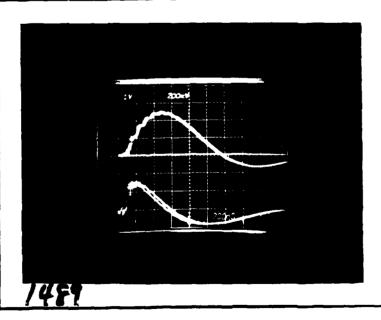




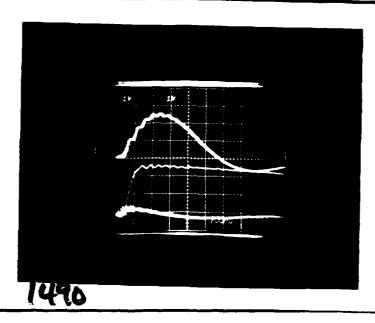


"HOT"

Date 6-1	9-85
Test Point 109.	-T25 - 6/10-Ø
Amplification	0 48
Attenuetion	40 48
	200 ns/dlv 1
Vertical LV(2	000 AV) -/ div 1
Horizontal	200 ne/div 2
Vertical .2V (	1600 V) =/div 2
Configuration	-20dB
Pulser Level	25,000 V
Date Link	
Comments:	122
"HOT"	



6-19-85 Dete Test Point 109-T25-15-0 Amplification Attenuation ns/div Horizontal 200 Vertical 1V (2000 A/V) Horizontal 200 ns/div 2 Vertical IV (8000 V) -/div 2 - 20 dB Configuration 25,000 V Pulser Level Data Link Comments:



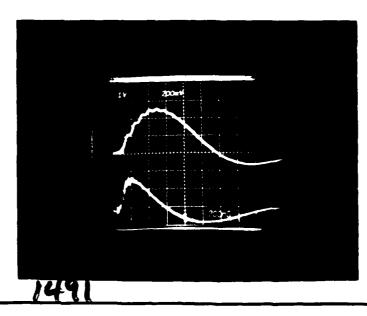
" common "

"ARC" INTERNAL

" FIRED ONE TIME WITHOUT ARCING"

6-19-85 Dete Test Point 109 - T25 - 6/10 - Ø Amplification 40 Attenuetion 48 Horizontal ne/dly 1 Vertical LV (2000 AV) -/div 1 Horizontal ne/div 2 200 Vertical .2V (1600V) =/div 2 Configuration -20dB Pulser Level 25,000 V Date Link Comments: 14.1

"common"



"ARC" INTERNAL

6-19-85 Date Test Point 110-T25-15-0 Amplification Attenuation 200 ns/div Horizontai Vertical 1V (2000 A/V Horizontal 200 ne/dly 2 Vertical IV (8000 V ) = div 2 - 20 dB Configuration 25,000 V Pulser Level Data Link Comments: 1472

1492

"HOT"

INTERNAL ARC
FIRED ONE TIME WITHOUT ARCING

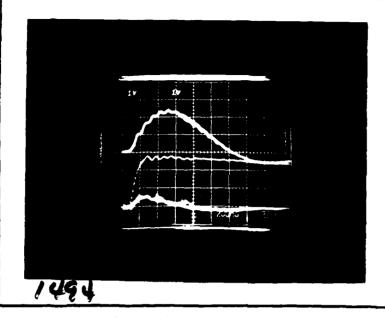
Date 6-19-85 Test Point /10 - T25 - 6/10 - Ø Amplification 40 Attenuation Horizontal ne/dlv 1 200 Vertical LV (2000 PV) div 1 istnoznoH 200 Vertical .2V (1600 V) -/41v 2 Configuration -20dB Pulser Level 25,000 V Date Link Comments:

2235

"HOT"

INTERNAL ARC

6-19-85 Dete Test Point //0-T25-1/5 - 0 Amphilication Attenuetton 48 ns/div Horizontal 200 Vertical JV (2000 A/V 200 Horizontal ns/div vertical IV (8000V) -/div - 20 dB Configuration Pulser Level 25,000 V Date Link Comments:



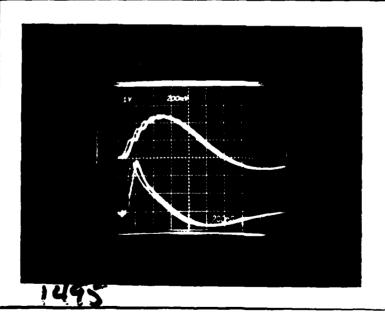
"common"

INTERNAL ARC

FIRED ONE TIME WITHOUT ARCING

6-19-85 Tool Point 116 - T25 - 6/10 - 6 Amplification 40 Attenuetion Horizontal 200 Vertical LV (2000 AV D/dlv 1 Horizontal ne/div 2 200 Vertical ,2V ( A/dly 2 1600 V) Configuration - 20 d B Pulser Level 25,000 V Date Link Comments:





INTERNAL ARC

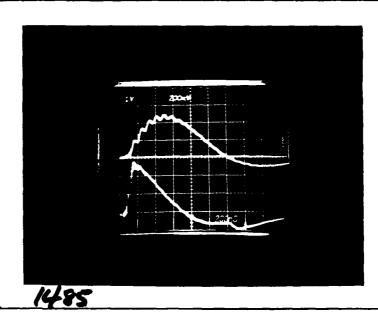
Dete 6-14-85 Test Point //- T25 - 15 - 0 Amplification 48 Attenuation ns/dlv Horizontal 200 Vertical JV (2000 A/V Horizontal 200 ns/dlv Vertical IV (8000 V) = /div 2 - 20 dB Configuration 25,000 V Pulser Level Data Link Comments:

1484

"HOT"

ARC FROM COMMON TERMINAL

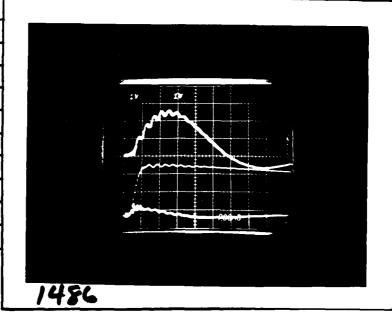
6-19-85 Test Point ///- T25 - 6/10 - 6 Amplification 46 40 Attenuetion ne/dly 1 Horizontal 200 vertical LV (2000 9/ J/dlv 1 Horizontai 200 ne/div 2 Vertical .2V (1600V) -/div 2 -20dB Configuration Pulser Level 25,000 V Date Link Commente: "HOT"



ARC FROM COMMON SIDE

6-19-85 Tool Point 111- T25- 15-0 Amputication d B Attenuetion ns/dlv Horizontal 200 Ventical 1V (2000 A/V 200 Horizontal ns/dlv Vertical IV (8000 V) ms/dly - 20 dB Configuration 25,000 V Pulser Level Data Link Comments:

"common"

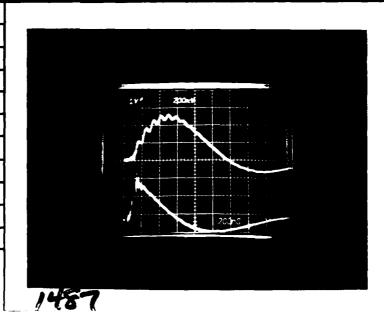


ARC FROM COMMON SIDE

Date 6-19-85 Test Point /1/- T25 - 6/10-0 Amplification 40 Attenuation 46 ne/dlv 1 200 Horizontal Vertical LV (2000 PV) #/div 1 Horizontal 200 ne/div 2 Vertical .2V (1600 V) -/div 2 Configuration -20dB Pelser Level 25,000 V Data Link



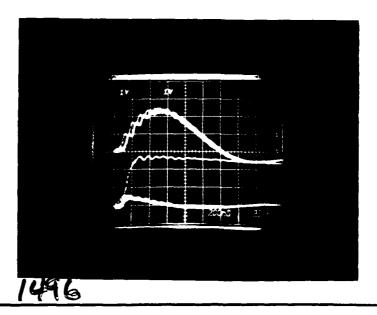
Comments:



ARC FROM COMMON SIDE

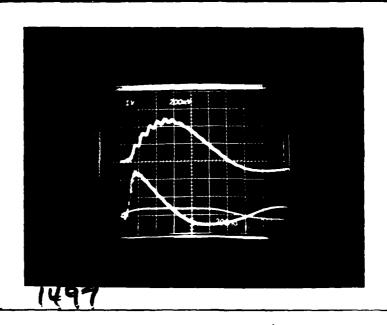
6-19-85 Date Test Point //2- 725 - 1/5 - \$ Amplification Attenuation ns/div Hortzontal 200 Vertical JV (2000 A/V 200 Horizontal ne/div Vertical 1V (8000 V) me/div 2 - 20 dB Configuration 25,000 V Pulser Level Date Link Comments:

" HOT"



SMALL ARC INTERNAL

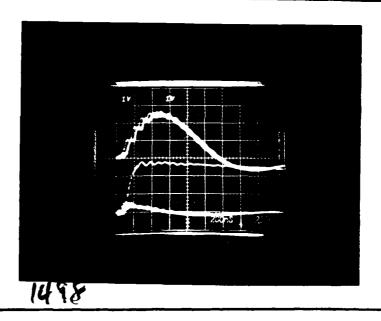
6-19-85 Test Point 1/2 - T25 - 6/10 - 0 Amplification dB 40 dS Attenuetton Horizontal 200 Vertical LV (2000 9/1) -/div 1 Horizontal ne/div 2 200 Vertical .2V (1600 V) -/div 2 -20dB Configuration Pulser Level 25,000 V Data Link Comments: "HOT"



SMALL ARC INTERNAL

6-19-85 Test Point (12-T25-15-0 Amplification 48 Attenuation ns/dlv Horizontal Vertical JV (2000 A/V 200 Horizontal Vertical IV (8000 V) me/div - 20 dB Configuration 25,000 V Pulser Level Data Link Comments:

"common"

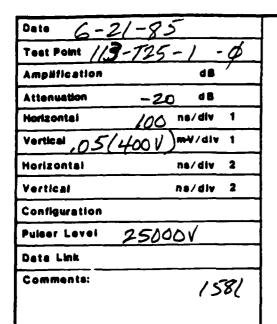


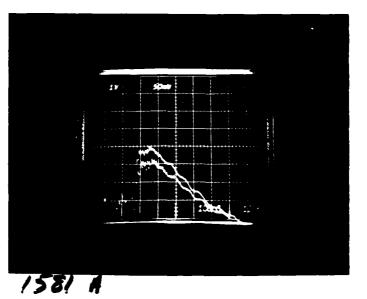
SMALL INTERNAL ARC

Date 6-19-85 Test Point 112-T25 - 6/10 - Ø Amplification 40 Attenuation 48 ne/dly 1 Horizontal 200 Vertical LV (2000 PV) **●**/div 1 Horizontal ne/div 2 200 Vertical .2V (1600 V) m/dlv 2 Configuration -20dB Pulser Level 25,000 V Date Link Comments: "common"

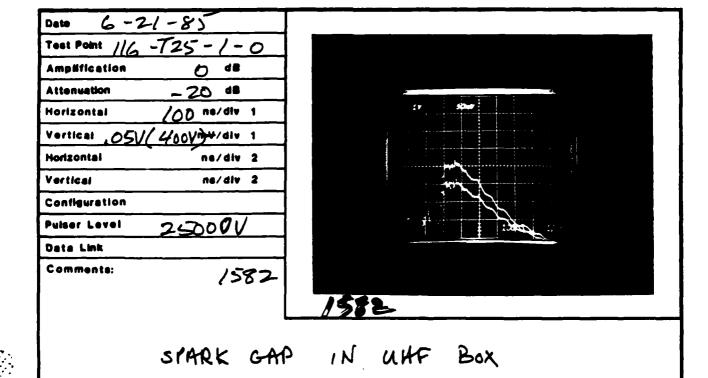
2000

SMALL INTERNAL ARL

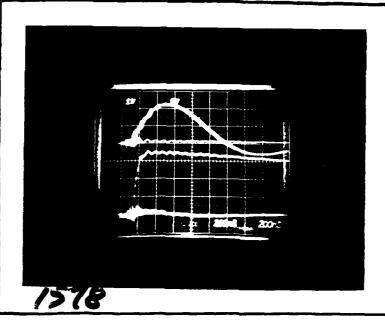




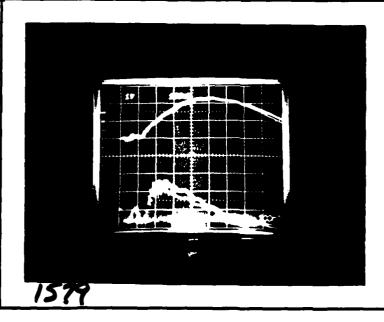
MOV + SPARK GAP IN WHF BOX



6-21-85 Date Test Point /14-725- 15-0 Amplification Attenuation 48 Horizontal ns/dlv 200 Vertical /// mV/div 1 Horizontal 200 ns/div Vertical /// 8000V ##/dly Configuration -20dB Pulser Level Date Link Comments: 1578



6-21-85 Test Point /// Amplification dB Attenuetion dS Horizontal ne/dlv 1 Vertical /L W/dlv Horizontal ns/dlv 2 as/dly 2 Vertical Configuration -20 dB Pulser Level 25 000 V Data Link Comments: 1579



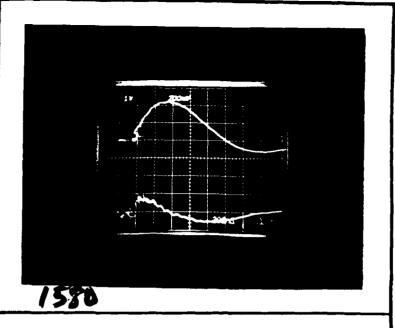
DATA + REF GND VOLTAGE DISPLAYED ON LOWER

TRACE - SC GND V = 800 V

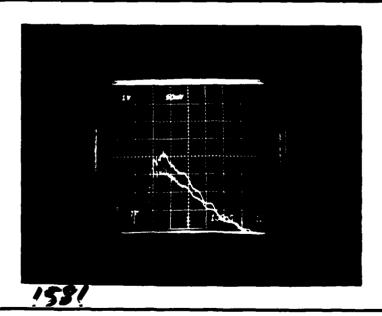
DATA V = 1200 V

DATA - 4 V = 400 V CLAMP-

6-21-85 Dete Test Point //4- 125-Amplification d S Attenuation ns/div Horizontal Vertical ns/dlv Horizontal Vertical 2V (1600V) )ne/div -20dB Configuration Pulser Level Date Link Comments: 1580

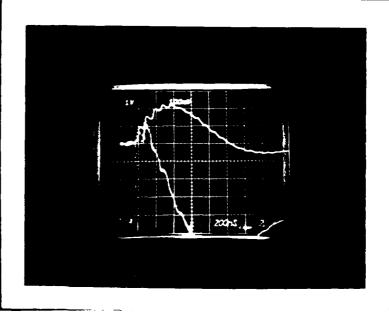


TRANSURB + SPARE CAP



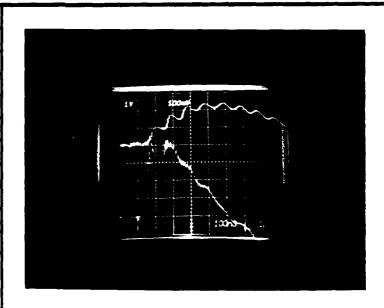
DATA = 
$$1200V$$
  
SC GND =  $800V$   
 $\Delta$  =  $400V$  CLAMP-

Date	
Test Point	
Amplification	48
Attenuation	<b>d 6</b>
Horizontal	ns/div 1
Vertical	mV/dlv 1
Horizontal	, ne/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	
Data Link	



Item 30 pulsed T25 W/Ac power on.

Date		
Test Point		
Amplification	dB	
Attenuetion	dB	
Horizontai	ne/dlv	1
Vertical	mV/dlv	1
Horizontal	ne/div	2
Vertical	ne/div	2
Configuration		
Pulser Level		
Date Link		

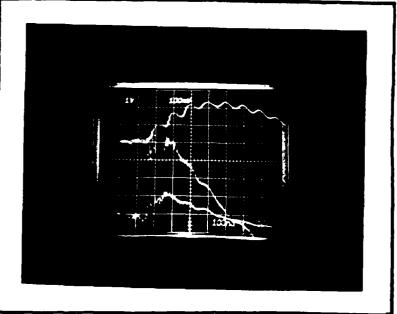


swo(2) item #69 in series pulsed -

Date	
Test Point	
Amplification	d <b>S</b>
Attenuetton	d <b>8</b>
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ne/div 2
Configuration	
Pulser Level	
Date Link	

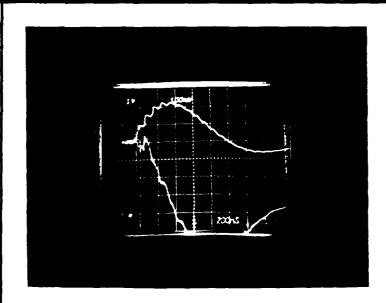
Comments:

Comments:



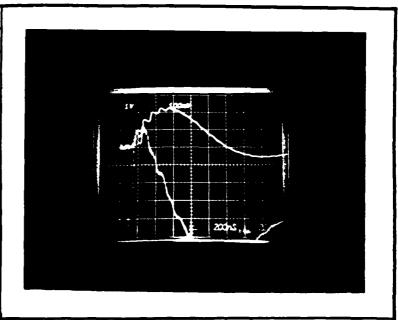
Iwo (2) etem #69 in suicis w/o AC - lived

Date	
Test Point	
Amplification	48
Attenuation	48
Horizontai	ne/div 1
Vertical	mV/div 1
Horizontal	ne/div 2
Vertical	ne/div 2
Configuration	
Pulser Level	
Data Link	



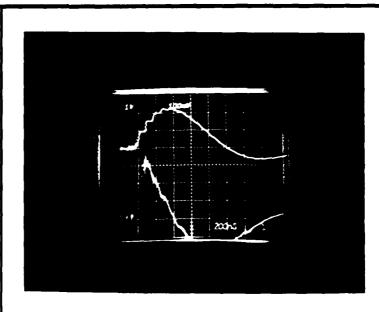
Iwo 2 tem 695 in series W/AC - lived

Date		_
Test Point		
Ampufication	dS	
Attenuation	48	
Horizontal	ns/div	1
Vertical	mV/dlv	1
Horizontal	ns/div	2
Vertical	ns/div	2
Configuration		
Pulser Level		
Data Link		



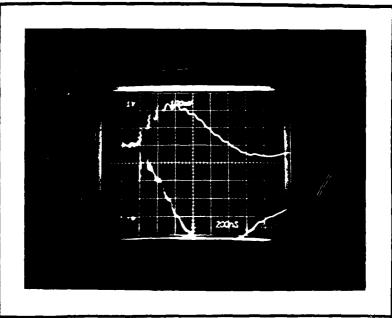
Atom 30 pulsed T25 W/O Ac power on

Date		
Test Point		
Amplification	48	
Attenuation	48	
Horizontal	ne/div	1
Vertical	mV/div	1
Horizontal	ne/div	2
Vertical	ne/div	2
Configuration		
Pulser Level		
Data Link		
Comments:		



ettern # 69 tested often item 30 removed from aircret - it died -Polsed with AC on -

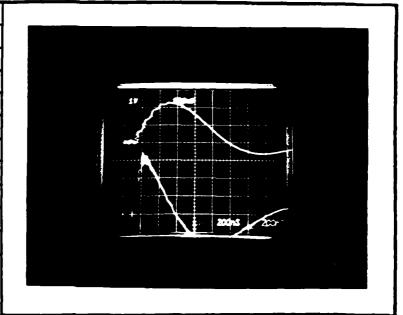
Date		
Test Point		
AmpHileation	dS	
Attenuation	dB	
Horizontai	ns/div	1
Vertical	mV/dlv	1
Horizontal	ne/div	2
Vertical	ns/div	2
Configuration		
Pulser Level		
Data Link		
	<del></del>	_



ettem 69 - Palsed ofter mov # 30 removed from cucuit - no Ac applied.

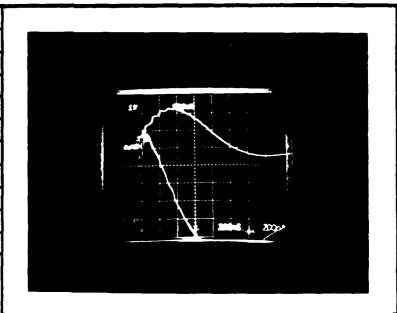
Date		
Test Point		
Amplification	dB	
Attenuation	d8	
Horizontal	ne/dlv	1
Vertical	mV/dlv	1
Horizontal	ne/div	2
Vertical	ne/dlv	2
Configuration		
Pulser Level		
Date Link		
Comments:		

Dete	
Test Point	
Amplification	₫₿
Attenuation	d B
Horizontal	ns/dlv 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ne/div 2
Configuration	
Pulser Level	
Data Link	
Comments:	



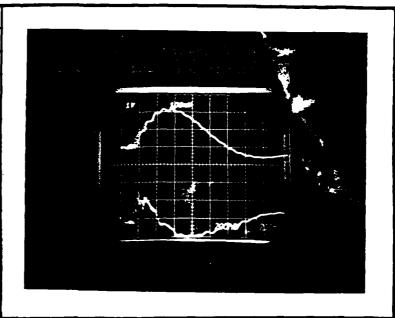
MOV# 130 + Spark Gap #69 palsed w/o AC

Date		
Test Point		
Amplification	48	
Attenuation	48	
Horizontal	ne/div	1
Vertical	mV/div	1
Horizontal	ne/div	2
Vertical	ne/dlv	2
Configuration		
Pulser Level		
Data Link		_
Comments:		_



MOV#130 pulsed alone T25

Dete	
Test Point	
Amplification	48
Attenuation	ds
Horizontal	ns/dlv 1
Vertical	mV/dlv 1
Horizontal	ns/dlv 2
Vertical	ns/div 2
Configuration	
Pulser Level	
Data Link	
0	

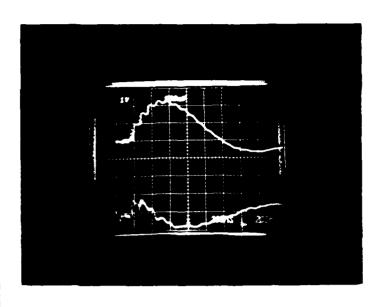


mov W/AC pulsED 725

Date		
Test Point		
Amplification	48	
Attenuation	48	
Horizontal	ne/dlv	1
Vertical	mV/dlv	1
Horizontal	ns/dlv	2
Vertical	ne/dlv	2
Configuration		
Pulser Level	<u> </u>	
Deta Link		
Comments:		

1.

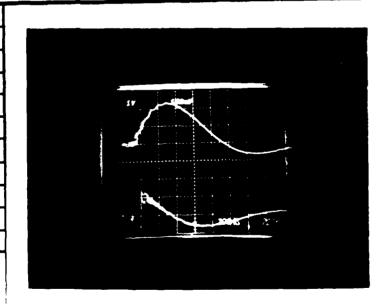
Date		
Test Point		
AmpHilcation	d₿	
Attenuation	dB	
Horizontal	ns/div	1
Vertical	mV/dlv	1
lorizontal	ne/div	2
/ertical	ns/div	2
Configuration		
Pulser Level	· 	
Deta Link		
Comments:		-



SIEMENS MOU (130) + SPARK GAP 69
pulsed worked

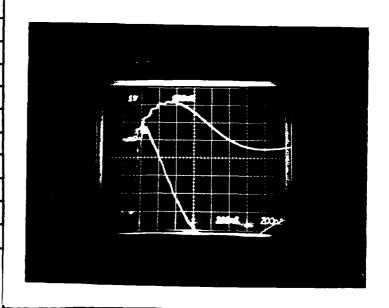
Dete		
Test Point		
Amplification	48	
Attenuation	46	
Horizontal	ne/dlv 1	
Vertical	mV/div 1	
Horizontal	ne/div 2	
Vertical	ne/dly 2	
Configuration		
Pulser Level		
Date Link		

Comments:



CND REF V-100MW/DIV- 200NS DIV I-1V/DIV- 200NS DIV

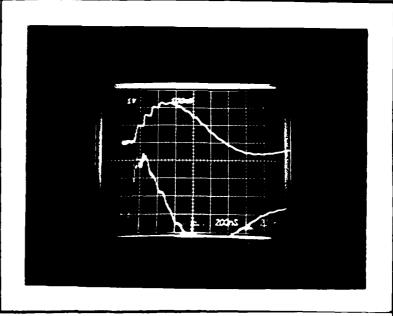
Dete		
Test Point		
Amplification	d <b>S</b>	
Attenuation	d <b>5</b>	
Horizontal	ns/div	1
Vertical	mV/dlv	1
Horizontai	ne/div	2
Vertical	ns/dlv	2
Configuration		
Pulser Level		
Data Link		
Comments:		



MOU # 130 pulsed alone - worked

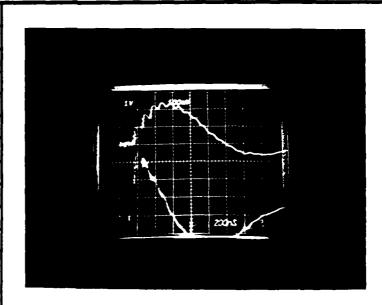
Date		
Test Point		
Amplification	dB	
Attenuation	d8	
Horizontal	ns/div	1
Vertical	mV/div	1
Horizontal	ne/div	2
Vertical	ng/dlv	2
Configuration		
Pulser Level		
Data Link		
Comments:		

Date	
Test Point	
Amplification	₫₿
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/dlv 1
Horizontal	ns/dlv 2
Vertical	ne/div 2
Configuration	
Pulser Level	
Data Link	
Composite	



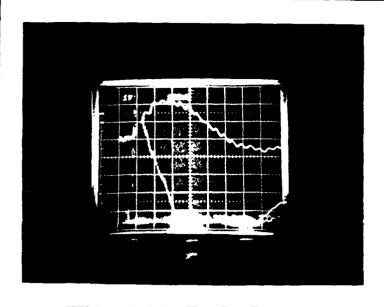
ettem 69 + 30 pulsed w Ac power lived

Date		
Test Point		
Amplification	48	
Attenuation	ds	
Horizontal	ne/dlv	1
Vertical	mV/div	1
Horizontal	ne/div	2
Vertical	ne/dly	2
Configuration		
Pulser Level		
Date Link		
Commenter		



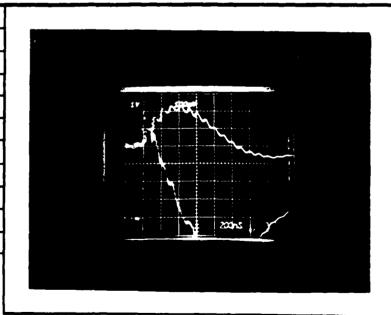
ettems 69+30 pulsed W/o Ac power on bired

Date 6/	21
Test Point	
AmpHication	dB
Attenuetion	d B
Horizontal	ns/div 1
Vertical	mV/dlv 1
Horizontal	-ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level 2	5 KV
Data Link	
Comments:	



## FAILURE MODE 100 - B

Date	6/21
Test Point	
AmpHficati	on dB
Attenuation	d₿
Horizontal	ne/dlv 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ne/div 2
Configuration	on
Pulser Leve	" 25 KV
Data Link	
Comments:	:



FAILURE MODE

## END

## FILMED

3-86

DTIC